

2007 University of the District of Columbia Combined Research and Extension Annual Report

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2007 University of the District of Columbia Combined Research and Extension Annual Report

I. Report Overview

1. Executive Summary

The DC Agricultural Experiment Station is a unique entity within the land-grant system. As a totally urban land-grant institution, it is challenged with identifying, designing, and implementing research, investigations, and experiments relative to critical issues in our nation's capital. Like most large cities, Washington, DC is plagued with a myriad of issues varying from health, nutrition, crime, education, illiteracy, and self-sustainability to water quality, urban greening, conservation, recycling, and economic and community development. Thus, it is imperative that our research program is meticulously formulated so that we may effectively address some of the paramount concerns for the District of Columbia's citizenry. Due to resource limitations, it is impossible to respond to a large number of the city's priorities, yet we are tapping into major areas of concern and it is our intention to think creatively and critically to expand and explore additional topics as we enter each new fiscal year. In particular, we are mindful of those who are underrepresented and underserved.

Our stakeholders are far ranging from the mayor of our capital city to the single mother raising her children on a limited income to the dedicated, underpaid classroom teacher residing in a small apartment in the city. When we consider "urban agriculture" in the District of Columbia, we must take into account all matters related to how DC urbanites live, work, and play in their city. The current focus of the Agricultural Experiment Station's Research Program is in the following areas: health (obesity, diabetes, cancer prevention, asthma, and breast cancer), nutrition, youth violence, sustainable agriculture, urban gardening, environmental science and water studies training for teachers, urban agriculture and environmental activities for students, environmental stewardship, soil amendment and conservation.

AES continues to work with other academic institutions across the country to participate in multi-state research that addresses national issues, specifically food, nutrition, and health. Currently, there are two ongoing multi-state research projects in the Station. One includes the development of measurement tools to identify pediatric obesity key behaviors. In recent years, pediatric obesity has become a national major concern for today's youth. This phenomenon is increasing at an alarming rate. The other study involves the improvement of plant food (fruit, vegetable and whole grain) availability and intake in older adults. A major concern facing nutrition educators is that aging consumers are confused by conflicting media reports and advertisements related to the properties of fruit, vegetables and whole grains, making apparent the need for clearer informational messages. Disease prevention in the older population with the goal of fostering independent living and a high quality of life has been set as a national priority within federal health policy.

The DC Agricultural Experiment Station continues to work closely with the Cooperative Extension Service as an effort to form viable joint/integrated projects and to develop effective strategies that lead to an improved society in the Washington, DC area. AES has increased its efforts to engage stakeholders through hosting and participating in workshops, seminars and environmental conferences, and providing information via the University's website and printed Information Documents. Further, the Station has pursued opportunities that promote dialogue with upper level administration and academic departments to discuss the need for and benefit of joint appointments, internal and external partnerships, the development of the research farm in Beltsville, MD, and developing a closer working relationship with DC Public Schools and other DC agencies.

Through its Water Environment Studies in Schools Teacher Training Institute, AES contributes to expanding the knowledge of middle schools teachers in public, private, and charter schools in the District of Columbia in the areas of water and environmental studies. After completing the summer program, teachers are equipped to incorporate their newly acquired knowledge and experiences into their teaching curriculums. As a result, students are exposed to meaningful lectures and hands-on activities, bringing them steps closer to understanding and appreciating their urban ecosystem. Through continuous improvement strategies, AES is resolved to making notable contributions leading to the enhancement and sustainability of individuals and communities in the District of Columbia.

The Cooperative Extension Service continues to provide innovative educational services to our various ethnic and cultural stakeholders for the enhancement of their quality of life. Outcomes of a one year productivity assessment of CES programs, using the new accountability and productivity instruments, resulted in the restructuring of CES programs from five Units and two Centers to four Units and four Centers. The instrument self-assessed program activities, informational materials, and contacts from an individual, unit, and overall departmental perspectives. This new mechanism of accountability will continue to provide relevant data for external reporting and performance measures.

CES partnership with the DC Department of Parks and Recreation where one recreation center per ward is utilized for providing workshops, technical demonstrations, and distributing informational materials such as fact sheets continues. This partnership provides the opportunity to replicate successful programs across all wards and contact races. All CES units have forged strong

partnerships with private and public, local and regional agencies, organizations and businesses, enabling us to provide collaborative creative and pertinent educational opportunities for our stakeholders.

The CES Community Resource and Economic Development Unit has completed an assessment project analyzing gentrification in the District of Columbia and the new roles of urban Extension. Two publications "Gentrification: Creation or Destruction of Neighborhoods" and "Understanding Cooperatives and their Impact on Communities and Quality of Life" are being distributed to our local, regional, and national stakeholders. The interdisciplinary collaboration between the Environment & Natural Resources, Family & Consumer Sciences and Housing and Environment Programs Units continues to provide training and technical services in environmental hazard and asthma prevention to assist with solving the health and environmental issues facing our many at-risk stakeholders. The Environment and Natural Resources Unit through its Urban Pest Management Program has received funding from the Environmental Protection Agency (EPA) and is developing a model and sustainable program for eliminating urban pests associated with low income residents. Our Master and Junior Master Gardeners Program train and assist residents in urban gardening projects while endeavoring to "Green the City of Washington DC." The Center for Nutrition Diet and Health continues to implement the Food Stamp Nutrition Education Program while researching youth obesity in the District through a collaborative Seed Grant Program with several researchers at local Universities. In an effort to break the chain of illiteracy which is extremely high in the District, our 4-H DC Reads Program successfully offers mentoring to Elementary students by College students from the University of the District of Columbia while the Parenting Education Program enhances the parenting skills of their parents.

We have expanded all of our programs with the hiring of committed professionals and strong resource assistance to support family and community development, consumer and financial knowledge and skills, nutrition and health, youth development, water quality, urban pest management, horticulture, and reading literacy. Both AES and CES are collaborating on integrated, multi-institutional and multi-state projects in an effort to build a closer relationship with the residents of the District of Columbia.

Total Actual Amount of professional FTEs/SYs for this State

| Year:2007 | Extension | | Research | |
|-----------|-----------|------|----------|------|
| | 1862 | 1890 | 1862 | 1890 |
| Plan | 24.6 | 0.0 | 11.7 | 0.0 |
| Actual | 22.8 | 0.0 | 7.8 | 0.0 |

II. Merit Review Process

1. The Merit Review Process that was Employed for this year

- Internal University Panel
- External University Panel
- External Non-University Panel

2. Brief Explanation

There have basically been no changes in the AES Program Review process. Each year the Director reviews the progress of each research project to ensure that researchers are accomplishing their objectives. Modifications have been made to move in the direction of implementing research and integrated activities based on issues germane to an urban environment. The Peer Review includes representatives from the Departments of Biological and Environmental Sciences, Chemistry, Physics, Sociology, Urban Affairs, Criminal Justice, and Psychology; the Water Resources Research Institute; the Cooperative Extension Service; and community/local government. The Peer Review criteria remains, but is not limited to:

- Knowledge base of the research
- Adequacy of procedures and experiment to meet the objectives
- Feasibility of accomplishing the objectives
- Scientific merit of the proposed research
- Familiarity with work of others related to the proposal
- Outcomes and Impacts
- Appropriate budget for proposed research
- Budget justification

The Experiment Station has changed the format of the proposal submission to require information pertaining to the logic model to be incorporated in the proposal. The Peer Review Evaluation has been updated to reflect this in order to make the following recommendations: Approved; Approved with Comment; Conditionally Approved; and Deferred or Rejected.

Extension

The UDC Cooperative Extension, along with our Advisory Committees has developed various formal and informal, qualitative and quantitative means to evaluate programs which include:

- Formal/informal Advisory Member Interviews
- Pre-test and post-test
- Volunteer recruitment and retention
- Agency/individual assessments
- Increased participant enrollment
- DC/National Certifications received by participants
- Partner/Collaborators evaluations
- Increased product demand
- Self-administered questionnaires
- Surveys
- Demonstrated Skills acquired by participants
- Proposals Funded
- Health Assessments
- Health Professionals and Participant Feedback
- Written/Oral Evaluations
- Behavioral/Attitudinal Changes
- Observations
- Reading Grade-level Achieved
- Staff Performance Appraisals
- Staff and Unit Monthly Productivity Assessment Tool
- Professional Development/Association Involvement
- Proposal Committee
- Conference Calls, Telephone and Email contacts were also made.
- Feedback from DC Public School Principals and Professional Staff
- Flyers are displayed at the site of programs, at libraries and various other public locations.
- Capital Area Food bank Advocacy Update Newsletter

III. Stakeholder Input

1. Actions taken to seek stakeholder input that encouraged their participation

- Targeted invitation to traditional stakeholder groups
- Targeted invitation to non-traditional stakeholder groups
- Targeted invitation to traditional stakeholder individuals
- Targeted invitation to non-traditional stakeholder individuals
- Targeted invitation to selected individuals from general public
- Survey of the general public

Brief Explanation

The Agricultural Experiment Station continues the dissemination of surveys to residents. We have revised the survey to focus more specifically on critical issues in the District of Columbia. We are not only distributing the survey manually but are working with University technicians to also make it assessable through our University's website. Input from stakeholders is also provided by informal contact through e-mails, telephone, interviews and neighborhood meetings as well as through community forums and events. The established AES/CES Advisory Board, diverse in specialization and experience, will be instrumental in helping AES to assess the needs/priorities of DC residents.

The UDC Cooperative Extension Service has cultivated and trained a highly involved stakeholder group in FY 2007. We continue to strive to provide programs and activities that are customer driven, some to a greater degree than others, as our Nutrition on Demand program. Through the various program advisory committees, program colleagues and agency collaborators, we have enhanced and expanded our program efforts and offerings.

The following list includes organizations, businesses and individuals who have been instrumental in fostering the CES programs by donating their time, expertise, funds and in-kind gifts.

American Horticultural Society

Blue Sky Press, an imprint of Scholastic Inc.

Children's author, Lynne Cherry – donated signed copies of her book "How Groundhogs Garden Drew"

EarthBoxes – provided training for teachers and students

Giant Foods – The nutritionist worked at one of the stations while students visited the supermarket.

National Gardening Association

Plant a Row for the Hungry Program

Seedway Seeds – provided seeds to the participating schools

United Nation Food and Agriculture Association – provided training for teachers

USDA, Agricultural Research Service- provided training and agricultural resources.

USDA, Cooperative State Research, Education and Extension Service – provided training via in-kind service, materials and resources

Whole Foods Markets – provided the food for "Sharing and Caring KGF Extravaganza"

United States National Arboretum – provided training and lunch at the Arboretum

DC Master Gardeners

Unity Health System serving the city-wide needs of Hispanics, Asians and persons of African decent, Howard University Community Association Advisory

DC Department of Health

HEADS UP, TEAM After-School Board

DOH Division of Toxic Substances

DC LifeSmarts Advisory Committee and National Consumers League

DC Public, Charter and Private School Principals and Professional Staff

UDC CES Center for Cooperatives Advisory Committee

DC Housing and Finance, DC Energy Office, and National Housing Alliance

DC Metro Green Industry

R.E.A.C.H. INC.

The American Reality Association

Community Harvest, and various other public/private agencies and organizations

2(A). A brief statement of the process that was used by the recipient institution to identify individuals and groups stakeholders and to collect input from them

1. Method to identify individuals and groups

- Use Advisory Committees
- Use Internal Focus Groups
- Use External Focus Groups
- Needs Assessments
- Use Surveys

Brief Explanation

Two advisory boards have been established: AES/CES Advisory Board and the Community Outreach and Extension Services Advisory Board. The members of these Boards are diverse in specialization and experience and will continue to assist with stakeholder input, community events and meetings, marketing, needs assessments, partnerships, and program activities.

The UDC Cooperative Extension Service has cultivated and trained a highly involved stakeholder group in FY 2007. We continue to strive to provide programs and activities that are customer driven, some to a greater degree than others, as our Nutrition on Demand program. Through the various program advisory committees, program colleagues and agency collaborators, we have enhanced and expanded our program efforts and offerings.

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UDC CES Center for Cooperatives Advisory Committee

DC Housing and Finance, DC Energy Office, and National Housing Alliance

DC Metro Green Industry

R.E.A.C.H. INC.

The American Reality Association

Community Harvest, and various other public/private agencies and organizations

2(B). A brief statement of the process that was used by the recipient institution to identify individuals and groups who are stakeholders and to collect input from them

1. Methods for collecting Stakeholder Input

- Meeting with traditional Stakeholder groups
- Survey of traditional Stakeholder groups
- Meeting with traditional Stakeholder individuals
- Survey of traditional Stakeholder individuals
- Meeting specifically with non-traditional groups
- Survey specifically with non-traditional groups
- Meeting with invited selected individuals from the general public

Brief Explanation

The Agricultural Experiment Station continues the dissemination of surveys to residents. We have revised the survey to focus more specifically on critical issues in the District of Columbia. We are not only distributing the survey manually but are working with University technicians to also make it assessable through our University's website. Input from stakeholders is also provided by informal contact through e-mails, telephone, interviews and neighborhood meetings as well as through community forums and events. The established AES/CES Advisory Board, diverse in specialization and experience, will be instrumental in helping AES to assess the needs/priorities of DC residents.

3. A statement of how the input was considered

- To Identify Emerging Issues
- Redirect Extension Programs
- Redirect Research Programs
- In the Staff Hiring Process
- To Set Priorities

Brief Explanation

As several of the current research projects within the Agricultural Experiment Station will soon terminate, the Station will be developing and disseminating RPFs. The stakeholder input received will be used in determining the design of the research program in regards to developing and implementing studies, investigations, and experiments that address the critical issues identified by our stakeholders as priorities for the city.

Brief Explanation of what you learned from your Stakeholders

The following areas continue as critical concerns for our stakeholders: Health, Nutrition, Youth Violence, Sustainable Neighborhoods, Water Quality, Illiteracy, Pesticide Management, and Urban Gardening to include Herb Gardens, Organic Gardens, and Water Gardens. Further, teachers in the District of Columbia Public and Charter Schools have expressed a continued need for training in water environment studies in schools and the development of curriculum that supports environmental education, in particular, urban agriculture.

IV. Expenditure Summary

| 1. Total Actual Formula dollars Allocated (prepopulated from C-REEMS) | | | |
|--|-----------------------|-----------------|--------------------|
| Extension | | Research | |
| Smith-Lever 3b & 3c | 1890 Extension | Hatch | Evans-Allen |
| 1098241 | 0 | 1240714 | 0 |

| 2. Totaled Actual dollars from Planned Programs Inputs | | | | |
|--|---------------------|----------------|----------|-------------|
| Extension | | | Research | |
| | Smith-Lever 3b & 3c | 1890 Extension | Hatch | Evans-Allen |
| Actual Formula | 1037231 | 0 | 804788 | 0 |
| Actual Matching | 1037231 | 0 | 0 | 0 |
| Actual All Other | 408361 | 0 | 0 | 0 |
| Total Actual Expended | 2482823 | 0 | 804788 | 0 |

| 3. Amount of Above Actual Formula Dollars Expended which comes from Carryover funds from previous years | | | | |
|---|--------|---|---|---|
| Carryover | 331000 | 0 | 0 | 0 |

V. Planned Program Table of Content

| S. NO. | PROGRAM NAME |
|--------|--|
| 1 | Improving Plant Food (Fruit, Vegetable and Whole Grain) Availability and Intake in Older Adults |
| 2 | Finding Diabetes Associated Genes with Fuzzy-Inferenced Decisionmaking |
| 3 | Water Environment Studies in Schools Teacher Training Program |
| 4 | Cancer Prevention and Control Strategies for a Healthier DC Community |
| 5 | Juvenile Violent Crime Patterns |
| 6 | A Model of Macrophage Particulate Matter Air Pollution Interactions |
| 7 | Integrated Pest Management in Urban Gardens |
| 8 | Sustainable Agricultural Techniques for Growing Vegetables |
| 9 | Effect of Pelletized Maure on Vegetable Production and Vadose |
| 10 | Youth Environmental Life Sciences |
| 11 | 4-H and Youth Development |
| 12 | D.C. Reads |
| 13 | Water Quality Monitoring and Education |
| 14 | Agriculture in the Classroom |
| 15 | Renewable Resources Extention Act (RREA) |
| 16 | Home Lawn and Gardening |
| 17 | Washington Metropolitan Area Transit Authority Advanced Landscape Program |
| 18 | Master Gardener/Junior Master Gardener |
| 19 | Integrated Pest Mgmt for the Sustained Reduction of Pest Population in Low Income Urban Households |
| 20 | Pesticide Certification and Training |
| 21 | Nutrition on Demand |
| 22 | Parenting |
| 23 | Teachers Understanding Nutrition and Agriculture (TUNA) |
| 24 | Food Stamp Education Nutrition Program |
| 25 | Obesity Research Projects |
| 26 | Home Maintenance and Repair |
| 27 | Asthma Project |
| 28 | Center for Cooperatives & C.H. Kirkman, Jr. Resource Library for Cooperatives |
| 29 | Promoting Businesses |
| 30 | Financial Literacy |
| 31 | DC Food Handler Certification Program Model Project |
| 32 | DC Drinking Water Blind Taste Testing |

Program #1**V(A). Planned Program (Summary)****1. Name of the Planned Program**

Improving Plant Food (Fruit, Vegetable and Whole Grain) Availability and Intake in Older Adults

V(B). Program Knowledge Area(s)**1. Program Knowledge Areas and Percentage**

| KA Code | Knowledge Area | %1862 Extension | %1890 Extension | %1862 Research | %1890 Research |
|---------|----------------------------------|-----------------|-----------------|----------------|----------------|
| 703 | Nutrition Education and Behavior | 100% | | 100% | |
| | Total | 100% | | 100% | |

V(C). Planned Program (Inputs)**1. Actual amount of professional FTE/SYs expended this Program**

| Year: 2007 | Extension | | Research | |
|---------------|-----------|------|----------|------|
| | 1862 | 1890 | 1862 | 1890 |
| Plan | 0.0 | 0.0 | 1.9 | 0.0 |
| Actual | 0.0 | 0.0 | 1.1 | 0.0 |

2. Actual dollars expended in this Program (includes Carryover Funds from previous years)

| Extension | | Research | |
|---------------------|----------------|----------------|----------------|
| Smith-Lever 3b & 3c | 1890 Extension | Hatch | Evans-Allen |
| 0 | 0 | 154718 | 0 |
| 1862 Matching | 1890 Matching | 1862 Matching | 1890 Matching |
| 0 | 0 | 0 | 0 |
| 1862 All Other | 1890 All Other | 1862 All Other | 1890 All Other |
| 0 | 0 | 0 | 0 |

V(D). Planned Program (Activity)**1. Brief description of the Activity**

A survey instrument was designed, field tested, and administered to determine: to what extent adults eat quantities of fruits, vegetables, and whole grains as recommended by USDA guidelines; the general level of nutritional knowledge of older adults and their particular knowledge related to health benefits of fruits, vegetables, and whole grains; how nutritional knowledge and diagnosis of illness in older adults affect food choices and eating behaviors; and how food choices and eating behaviors in older adults are affected by significant life changes other than diagnosis of illness.

2. Brief description of the target audience

Adult men and women over 65 years of age who live in Metropolitan Washington, D.C.

V(E). Planned Program (Outputs)**1. Standard output measures****Target for the number of persons (contacts) reached through direct and indirect contact methods**

| | Direct Contacts Adults | Indirect Contacts Adults | Direct Contacts Youth | Indirect Contacts Youth |
|-------------|-----------------------------------|-------------------------------------|----------------------------------|------------------------------------|
| Year | Target | Target | Target | Target |
| Plan | 0 | 0 | 0 | 0 |
| 2007 | 0 | 0 | 0 | 0 |

2. Number of Patent Applications Submitted (Standard Research Output)**Patent Applications Submitted**

| | |
|--------------|---------------|
| Year | Target |
| Plan: | 0 |
| 2007 : | 0 |

Patents listed**3. Publications (Standard General Output Measure)****Number of Peer Reviewed Publications**

| | Extension | Research | Total |
|-------------|------------------|-----------------|--------------|
| Plan | | | |
| 2007 | 0 | 0 | 0 |

V(F). State Defined Outputs**Output Target****Output #1****Output Measure**

- Assessment of nutritional risk is measured by a validated survey and a seven day food diary, both of which collect quantitative

| | | |
|-------------|---------------|---------------|
| Year | Target | Actual |
| 2007 | 0 | 6 |

V(G). State Defined Outcomes**V. State Defined Outcomes Table of Content**

| O No. | Outcome Name |
|-------|---|
| 1 | Number of subjects who are exposed to information about good nutrition in the process of their participation. |
| 2 | Number of participants who exercise and experience slow weight loss and better glycemic controls. |

Outcome #1**1. Outcome Measures**

Number of subjects who are exposed to information about good nutrition in the process of their participation.

2. Associated Institution Types

•1862 Research

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 250 | 70 |

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

The issue is identification and assessment of nutritional risk in the elderly population of the District of Columbia. Identification and assessment inform type, content, and frequency of intervention intended to enhance health of individuals related to obesity, diabetes, carcinomas of the digestive system, and cardiovascular diseases.

What has been done

Assessment is being made using a survey instrument designed by the UDC research team. Short informational workshops have been conducted after survey completion. More extensive intervention activities will be developed when all participants have completed the survey.

Results

For 70 participants there was a change in nutritional knowledge including but not limited to: nutritional content of foods ; portion sizes; micronutrients; role of supplements; food choices, particularly of fruits, vegetables, and whole grains, related to obesity and morbidity.

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|---------|----------------------------------|
| 703 | Nutrition Education and Behavior |

Outcome #2**1. Outcome Measures**

Number of participants who exercise and experience slow weight loss and better glycemic controls.

2. Associated Institution Types

•1862 Research

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 85 | 32 |

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

The issue is identification and assessment of nutritional risk in the elderly population of the District of Columbia. Identification and assessment inform type, content, and frequency of intervention intended to enhance health of individuals related to obesity, diabetes, carcinomas of the digestive system, and cardiovascular diseases.

What has been done

Assessment is being made using a survey instrument designed by the UDC research team. Short informational workshops have been conducted after survey completion. More extensive intervention activities will be developed when all participants have completed the survey.

Results

For 32 participants there were changes in: exercise; food choices; food frequency.

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|----------------|----------------------------------|
| 703 | Nutrition Education and Behavior |

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Other (family & social support)

Brief Explanation

Surveys are given in individual interviews conducted by individual researchers. Time constraints of interviewers and scheduling has prevented completion of target numbers. The number of total participants has been revised to 150. Completion is expected during 2008 summer.

V(I). Planned Program (Evaluation Studies and Data Collection)

1. Evaluation Studies Planned

- Before-After (before and after program)
- During (during program)
- Case Study
- Other ()

Evaluation Results

Key Items of Evaluation

Program #2**V(A). Planned Program (Summary)****1. Name of the Planned Program**

Finding Diabetes Associated Genes with Fuzzy-Inferenced Decisionmaking

V(B). Program Knowledge Area(s)**1. Program Knowledge Areas and Percentage**

| KA Code | Knowledge Area | %1862 Extension | %1890 Extension | %1862 Research | %1890 Research |
|---------|--|-----------------|-----------------|----------------|----------------|
| 901 | Program and Project Design, and Statistics | 50% | | 50% | |
| 903 | Communication, Education, and Information Delivery | 50% | | 50% | |
| | Total | 100% | | 100% | |

V(C). Planned Program (Inputs)**1. Actual amount of professional FTE/SYs expended this Program**

| Year: 2007 | Extension | | Research | |
|---------------|-----------|------|----------|------|
| | 1862 | 1890 | 1862 | 1890 |
| Plan | 0.0 | 0.0 | 0.8 | 0.0 |
| Actual | 0.0 | 0.0 | 0.6 | 0.0 |

2. Actual dollars expended in this Program (includes Carryover Funds from previous years)

| Extension | | Research | |
|--------------------------------|-----------------------|-----------------------|-----------------------|
| Smith-Lever 3b & 3c | 1890 Extension | Hatch | Evans-Allen |
| 0 | 0 | 104068 | 0 |
| 1862 Matching | 1890 Matching | 1862 Matching | 1890 Matching |
| 0 | 0 | 0 | 0 |
| 1862 All Other | 1890 All Other | 1862 All Other | 1890 All Other |
| 0 | 0 | 0 | 0 |

V(D). Planned Program (Activity)**1. Brief description of the Activity**

We have proposed several new methodologies in analyzing gene microarray data. All of these methodologies are fuzzy-set-theory based. Most of them are for differential analysis. Traditionally, statistical tools are the only tools used for this. Our approaches brings a new and exciting start for fuzzy-set-theory, a theory have been applied more and more in all aspects of sciences, to differential analysis. We are also one of the first to conduct microarray analysis with fuzzy approaches. This project also provides students with great research experiences and trainings which contribute to preparing them for their career. Students have been able to conduct research under the guidance of the PI and other professors and work in a multi-institutional and multi-disciplinary team. With this experience, one of the programmers was able to get a job from a company in this field immediately after the completion of his education.

2. Brief description of the target audience

Computer Scientists, biologist who focus on microarray data analysis and diabetes; health care professionals; diabetic or suspected diabetic patients.

V(E). Planned Program (Outputs)**1. Standard output measures****Target for the number of persons (contacts) reached through direct and indirect contact methods**

| | Direct Contacts Adults | Indirect Contacts Adults | Direct Contacts Youth | Indirect Contacts Youth |
|-------------|-----------------------------------|-------------------------------------|----------------------------------|------------------------------------|
| Year | Target | Target | Target | Target |
| Plan | 0 | 0 | 0 | 0 |
| 2007 | 0 | 0 | 0 | 0 |

2. Number of Patent Applications Submitted (Standard Research Output)**Patent Applications Submitted****Year Target****Plan:** 0

2007 : 0

Patents listed**3. Publications (Standard General Output Measure)****Number of Peer Reviewed Publications**

| | Extension | Research | Total |
|-------------|------------------|-----------------|--------------|
| Plan | | | |
| 2007 | 0 | 0 | 0 |

V(F). State Defined Outputs**Output Target****Output #1****Output Measure**

- The methodology FIND for gene microarray data analysis will be developed and tested on both synthetic and real data. The ge

| Year | Target | Actual |
|-------------|---------------|---------------|
| 2007 | 0 | 0 |

V(G). State Defined Outcomes**V. State Defined Outcomes Table of Content**

| O No. | Outcome Name |
|-------|---|
| 1 | The short term results will be the identification of the genes to be associated with diabetes and the investigators' knowledge and experience with diabetes and gene analysis. Long term results would be (1) prevention and control of diabete and (2) methods developed that can be applied for prognosis of many other diseases. |

Outcome #1**1. Outcome Measures**

The short term results will be the identification of the genes to be associated with diabetes and the investigators' knowledge and experience with diabetes and gene analysis. Long term results would be (1) prevention and control of diabetes and (2) methods developed that can be applied for prognosis of many other diseases.

2. Associated Institution Types

- 1862 Research

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 2 | 0 |

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

The targeted audiences are researchers that conduct research in diabetes control and prevention and researchers that conduct gene analysis. There are 18.2 million people in the United States, or 6.3% of the population, who have diabetes. Genetics is important to diabetes prevention and control. Gene expression data is often uncertain, e.g., accompanied by noise that can affect the analysis of gene expression and its associations with biological functions.

What has been done

An innovative fuzzy-theory-based methodology, Multi-dimensional Cluster Misclassification test (MCM-test), was developed to identify gene pathways that play significant roles in diabetes. We conducted differential analysis with this new methodology on published gene microarray data and pathways. Also, we continued developing the GeneDiff website where we provide the public with downloadable software implementation of methodologies we developed.

Results

The experimental results proved that the MCM-test works effectively. Experiments have been conducted on both synthetic data and real world data. Results on published diabetes gene expression dataset and a list of predefined pathways from KEGG identified OXPHOS pathway involved in oxidative phosphorylation in mitochondria and other mitochondrial related pathways to be deregulated in diabetes patients. Our results support the previously supported notion that mitochondrial dysfunction is an important event in insulin resistance and type-2 diabetes.

Our experiments results suggest that MCM-test can be successfully used in pathway level differential analysis of gene expression datasets. This approach also provides a new solution to the general problem of measuring the difference between two groups of data, which is one of the most essential problems in most areas of research.

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|---------|--|
| 903 | Communication, Education, and Information Delivery |
| 901 | Program and Project Design, and Statistics |

V(H). Planned Program (External Factors)**External factors which affected outcomes**

- Other ()

Brief Explanation

The long-term outcomes of this project will depend on the availability of the continuous funding to extend this project and also involvement of additional specialists.

- 1) Long-term outcome No.1: while the results of this current project will with no doubt contribute to the diabetes control and prevention, the realization of this long-term outcome is beyond the scope of this three-year funded project.
- 2) Long-term outcome No.2. To develop this methodology to apply to other diseases, specialist of those diseases need to be involved. New teams need to be formed and additional funding would be required.

Base on what we have achieved so far, we are confident in moving toward these long-term goals. And we would like to extend this project for another three or five years if continuous funding will be available.

V(I). Planned Program (Evaluation Studies and Data Collection)

1. Evaluation Studies Planned

- Retrospective (post program)
- Other ()

Evaluation Results

In this report period, two papers have been published at prestigious conferences on bioinformatics. One of these two papers, the gene pathway study results, was published at a conference sponsored by IEEE Computer Science Society and the conference proceeding is published by IEEE which is included in the IEEE digital library. The presentation made by Dr. Liang at that conference was well-received. We were also invited to write a journal paper on this study for BMC bioinformatics, one of the top journals in bioinformatics. The manuscript has been sent for publication. Once published, it will be sent to 300,000 researchers who subscribe this journal.

Key Items of Evaluation

Program #3**V(A). Planned Program (Summary)****1. Name of the Planned Program**

Water Environment Studies in Schools Teacher Training Program

V(B). Program Knowledge Area(s)**1. Program Knowledge Areas and Percentage**

| KA Code | Knowledge Area | %1862 Extension | %1890 Extension | %1862 Research | %1890 Research |
|---------|--|-----------------|-----------------|----------------|----------------|
| 903 | Communication, Education, and Information Delivery | 100% | | 100% | |
| | Total | 100% | | 100% | |

V(C). Planned Program (Inputs)**1. Actual amount of professional FTE/SYs expended this Program**

| Year: 2007 | Extension | | Research | |
|---------------|-----------|------|----------|------|
| | 1862 | 1890 | 1862 | 1890 |
| Plan | 0.0 | 0.0 | 2.0 | 0.0 |
| Actual | 0.0 | 0.0 | 2.0 | 0.0 |

2. Actual dollars expended in this Program (includes Carryover Funds from previous years)

| Extension | | Research | |
|---------------------|----------------|----------------|----------------|
| Smith-Lever 3b & 3c | 1890 Extension | Hatch | Evans-Allen |
| 0 | 0 | 148396 | 0 |
| 1862 Matching | 1890 Matching | 1862 Matching | 1890 Matching |
| 0 | 0 | 0 | 0 |
| 1862 All Other | 1890 All Other | 1862 All Other | 1890 All Other |
| 0 | 0 | 0 | 0 |

V(D). Planned Program (Activity)**1. Brief description of the Activity**

The program attracts numerous participants from a variety of educational genres. This year's participants included teachers from the District of Columbia elementary schools, education centers, middle and junior high schools, senior high schools, and public charter schools. Participants were engaged in the first session which focused on the level two component of the program. Participants were engaged in the second session which focused on the basic component of the program.

2. Brief description of the target audience

Our initial recruits to the WESS TTI are teachers of Middle and Junior High School students. In turn, teachers recruit their students to the Environment program. The students are the primary recruiters of students, most likely, their own classroom students.

V(E). Planned Program (Outputs)**1. Standard output measures****Target for the number of persons (contacts) reached through direct and indirect contact methods**

| | Direct Contacts Adults | Indirect Contacts Adults | Direct Contacts Youth | Indirect Contacts Youth |
|-------------|-----------------------------------|-------------------------------------|----------------------------------|------------------------------------|
| Year | Target | Target | Target | Target |
| Plan | 0 | 0 | 0 | 0 |
| 2007 | 0 | 0 | 0 | 0 |

2. Number of Patent Applications Submitted (Standard Research Output)**Patent Applications Submitted****Year Target****Plan:** 0

2007 : 0

Patents listed**3. Publications (Standard General Output Measure)****Number of Peer Reviewed Publications**

| | Extension | Research | Total |
|-------------|------------------|-----------------|--------------|
| Plan | | | |
| 2007 | 0 | 0 | 0 |

V(F). State Defined Outputs**Output Target****Output #1****Output Measure**

- This project will established a comprehensive training program; a follow-up for both in-school as well as public engagement; a

| Year | Target | Actual |
|-------------|---------------|---------------|
| 2007 | 2 | 3 |

V(G). State Defined Outcomes**V. State Defined Outcomes Table of Content**

| O No. | Outcome Name |
|-------|--|
| 1 | Number of teachers the project enables to design and implement a plan and process for restoring the River and promote its popularity to the general public as well as to the students. |
| 2 | Number of projects implemented by schools, churches, businesses, and independent citizens that can conserve, maintain, and beautify the environment. |

Outcome #1**1. Outcome Measures**

Number of teachers the project enables to design and implement a plan and process for restoring the River and promote its popularity to the general public as well as to the students.

2. Associated Institution Types

•1862 Research

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 40 | 8 |

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

In the absence of information, destructive environmental practices can and most likely will continue to be the major activity. Classroom Education and Information is significant because of the loss of human engagement in the conservation of the environment through the absence of classroom teaching and learning. Teachers are rewarded to higher positions, certification and pay based on the extra education they engage in as well as their performance on the job.

What has been done

Formalized information workshops were conducted around the issue of water quality, conditions and effects. The workshops were lead by experts in the various fields relating to the environmental education in-schools needs. Teachers were introduced to experts in the fields, new field trip sites and hands-on activities that could engage their students and sustain their interest as stewards of the environment.

Results

The WESS TTI encourages teachers to use newspapers as texts, music and art, local experts and the Internet for a start. Teachers became comfortable with the prospect of team teaching, new field trips, and water recreational activities, such as boating and fishing. Local environmental education organizations also serve as classrooms in the open. Teachers find the camaraderie developed in the TTI a positive force in their discovery and use of new information. They learn to share information across teachers, disciplines and schools. The use of the Internet has been an outstanding asset in this learning process and carries over benefits to all the subject matters encountered in the total school curriculum. Many teachers request a Level 2 program where they can become more scientific and knowledgeable about the practices of conservation.

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|---------|--|
| 903 | Communication, Education, and Information Delivery |

Outcome #2**1. Outcome Measures**

Number of projects implemented by schools, churches, businesses, and independent citizens that can conserve, maintain, and beautify the environment.

2. Associated Institution Types

•1862 Research

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 40 | 6 |

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

Water Environmental Issues in need of citizen knowledge and engagement include:

- * Non-point Source Pollution
- * Recreation
- * Water Quality

River

Tap-Water

- * Land Fills
- * Water Run-Off
- * Concrete
- * Groundwater
- * Sewers
- * Health
- * Careers

What has been done

Activities for participating schools have included: implementing environmental programs during the academic year; student field trips to water environment sites; the building of Wetland Nursery Ponds on schools grounds; the establishment of Butterfly Gardens; the development of science and agriculture programs; and a Science Fair. One school has been engaged in the city-wide Sin City project and won first and second place.

Results

To date 150 teachers have participated in the WESS TTI and have received the basis for engaging students and community residents in the conservation and beautification of their watershed. Fourteen teachers who completed the Basic TTI returned for the Level 2 Institute program.

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|---------|--|
| 903 | Communication, Education, and Information Delivery |

V(H). Planned Program (External Factors)**External factors which affected outcomes**

- Economy
- Appropriations changes
- Other ()

Brief Explanation

External factors affecting outcomes for disseminating information have only to do with the financial support allocated to this issue. The WESS proposal is written to support teacher training and follow-up monitored activities during the academic year with students. To date, very little financial support has been provided to allow WESS staff to do meaningful follow-up. The most outstanding factor affecting outcomes for the environmental education in schools has to do with the concerns of the school administrators. Environmental ed has not received the commitment for inclusion such as Math, Science, etc. Therefore, it is confined to time periods that are more elective than mandatory. And, that makes it more difficult to attract learners and teachers to the cause. The fact that Environmental Education is not a mandate of the school system, keeps much valuable information from the children and youth of this country and their parents and communities.

V(I). Planned Program (Evaluation Studies and Data Collection)

1. Evaluation Studies Planned

- Retrospective (post program)
- During (during program)
- Other ()

Evaluation Results

The overall study of the WESS Program indicates that there is continued growth among the participating teachers and that they have gained an awareness of the importance of water environmental studies. Further, they recognize The WESS project enables teachers to design and implement a plan and process for restoring the River and to promote its popularity to the general public as well as to the students.

Key Items of Evaluation

Program #4**V(A). Planned Program (Summary)****1. Name of the Planned Program**

Cancer Prevention and Control Strategies for a Healthier DC Community

V(B). Program Knowledge Area(s)**1. Program Knowledge Areas and Percentage**

| KA Code | Knowledge Area | %1862 Extension | %1890 Extension | %1862 Research | %1890 Research |
|---------|--|-----------------|-----------------|----------------|----------------|
| 901 | Program and Project Design, and Statistics | 50% | | 50% | |
| 903 | Communication, Education, and Information Delivery | 50% | | 50% | |
| | Total | 100% | | 100% | |

V(C). Planned Program (Inputs)**1. Actual amount of professional FTE/SYs expended this Program**

| Year: 2007 | Extension | | Research | |
|---------------|-----------|------|----------|------|
| | 1862 | 1890 | 1862 | 1890 |
| Plan | 0.0 | 0.0 | 0.7 | 0.0 |
| Actual | 0.0 | 0.0 | 0.9 | 0.0 |

2. Actual dollars expended in this Program (includes Carryover Funds from previous years)

| Extension | | Research | |
|--------------------------------|-----------------------|-----------------------|-----------------------|
| Smith-Lever 3b & 3c | 1890 Extension | Hatch | Evans-Allen |
| 0 | 0 | 85738 | 0 |
| 1862 Matching | 1890 Matching | 1862 Matching | 1890 Matching |
| 0 | 0 | 0 | 0 |
| 1862 All Other | 1890 All Other | 1862 All Other | 1890 All Other |
| 0 | 0 | 0 | 0 |

V(D). Planned Program (Activity)**1. Brief description of the Activity**

"Current Perceptions Concerning Cancer among seniors (55 and older) in the African American Communities in the District of Columbia" has been reported at two different symposia. In March 2006, a presentation was made at the National Institute of Science in Greensboro, N.C. The presentation was awarded first place in Science Education at this meeting. The second phase of this project was presented in Washington, DC at the HBCU-Ups Meeting sponsored by the National Science Foundation. The presentation "Current Perceptions on Cancer Prevention and Control, Part II" was given by Memar Ayalew. This presentation received a third place Award in Biology. Additionally, the research was presented at the Spring Research Seminar in the Department of Biological and Environmental Sciences at the University of the District of Columbia (UDC). Students in the Undergraduate Research Course presented their research findings at the end of the fall and spring semesters. Also, data from this project was presented at two different forums (the Oversight Committee and the Program Steering Committee) of the UDC/Lombardi Comprehensive Cancer Center (LCCC).

2. Brief description of the target audience

The stakeholders and consumers of this program are the citizens of the District of Columbia. In the short term, the senior citizens over 55 years of age. In the long-term, all of the residents of the District of Columbia will be impacted.

V(E). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons (contacts) reached through direct and indirect contact methods

| | Direct Contacts Adults | Indirect Contacts Adults | Direct Contacts Youth | Indirect Contacts Youth |
|------|---------------------------|-----------------------------|--------------------------|----------------------------|
| Year | Target | Target | Target | Target |
| Plan | 0 | 0 | 0 | 0 |
| 2007 | 0 | 0 | 0 | 0 |

2. Number of Patent Applications Submitted (Standard Research Output)

Patent Applications Submitted

Year Target

Plan: 0

2007 : 0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

| | Extension | Research | Total |
|------|-----------|----------|-------|
| Plan | | | |
| 2007 | 0 | 0 | 0 |

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- Conduct a series of focus groups in order to determine the sources responsible for their views on cancer prevention and contri

| Year | Target | Actual |
|------|--------|--------|
| 2007 | 1 | 4 |

V(G). State Defined Outcomes**V. State Defined Outcomes Table of Content**

| O No. | Outcome Name |
|-------|--|
| 1 | Number of participants interviewed by professionals to obtain previous cancer information, behavior exploration, health services, etc. |
| 2 | Number of participants who adopt cancer prevention and control and decrease or eliminate risk behavior. |

Outcome #1**1. Outcome Measures**

Number of participants interviewed by professionals to obtain previous cancer information, behavior exploration, health services, etc.

2. Associated Institution Types

•1862 Research

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 20 | 44 |

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

Generally, African American have less access to health care facilities, are most likely to be without health insurance, have lower income, less educational achievements, and different cultural beliefs and attitudes about health practices. These factors may be the reason why the cancer burden for the District of Columbia is the greatest in the nation. The four types of cancers most likely to affect African Americans are colorectal, prostate, lung, and breast cancers.

What has been done

Seniors have been interviewed to determine preventive methods that they may have implemented such as receiving pertinent medical examinations to include mammograms, prostate tests, and colonoscopies. Also, the literature that participants have received will be examined to determine if it was appropriate and instrumental in assisting seniors to incorporate preventive measures into their lifestyles.

Results

The results of this research project "Current Perceptions Concerning Cancer among seniors (55 and older) in the African American Communities in the District of Columbia" has been reported at two different symposia. Data from this project was presented at two different forums (the Oversight Committee and the Program Steering Committee) of the UDC/Lombardi Comprehensive Cancer Center (LCCC).

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|---------|--|
| 903 | Communication, Education, and Information Delivery |

Outcome #2**1. Outcome Measures**

Number of participants who adopt cancer prevention and control and decrease or eliminate risk behavior.

2. Associated Institution Types

•1862 Research

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 20 | 42 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

This is an ongoing study to determine the current perceptions that African American seniors have on cancer, in order to implement cancer interventions and reduce the disproportionate rate of cancer among the African American populations of the District of Columbia.

What has been done

Four focus groups were conducted during which preliminary data sheets were completed followed by participation in a question and answer session. A buddy-system was put in place to serve as a motivational tool. Calendars were constructed with essential data on cancer. Calendars contained reminders for cancer screenings and procedures for applying cancer prevention lifestyle practices.

Results

A major emerging theme found was that many people were unaware of how to engage in a cancer prevention life style. They cited the need for constant reminders to participate in cancer prevention routines and to remain abreast of the importance of annual screening dates. Additionally, they required assistance in finding appropriate and affordable screening sites. Action was taken to implement their suggestions. During this one year period, the four different groups met monthly for 6 months of support-group meetings with the participants learning how to engage in a healthy lifestyle - nutrition, exercise and information on screening, clinical trials and other cancer information were given to the participants all of whom had buddies. After six months, the support-group meetings ended and only the buddy -system and a telephone call to the program coordinators for advice was provided to the participants.

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|---------|--|
| 903 | Communication, Education, and Information Delivery |

V(H). Planned Program (External Factors)**External factors which affected outcomes**

- Other ()

Brief Explanation

Only 2 individuals left the project during the last year and they were at one site, Greenleaf Senior Citizens Home in Southwest Washington, D.C. Their loss from the project curtailed the data coming from this site which, already only had three individuals.

V(I). Planned Program (Evaluation Studies and Data Collection)**1. Evaluation Studies Planned**

- Before-After (before and after program)
- During (during program)
- Other ()

Evaluation Results**Key Items of Evaluation**

Program #5**V(A). Planned Program (Summary)****1. Name of the Planned Program**

Juvenile Violent Crime Patterns

V(B). Program Knowledge Area(s)**1. Program Knowledge Areas and Percentage**

| KA Code | Knowledge Area | %1862 Extension | %1890 Extension | %1862 Research | %1890 Research |
|---------|---|-----------------|-----------------|----------------|----------------|
| 803 | Sociological and Technological Change Affecting Individuals, Communication, Education, and Information Delivery | 50% | | 50% | |
| 903 | | 50% | | 50% | |
| | Total | 100% | | 100% | |

V(C). Planned Program (Inputs)**1. Actual amount of professional FTE/SYs expended this Program**

| Year: 2007 | Extension | | Research | |
|---------------|-----------|------|----------|------|
| | 1862 | 1890 | 1862 | 1890 |
| Plan | 0.0 | 0.0 | 1.1 | 0.0 |
| Actual | 0.0 | 0.0 | 0.6 | 0.0 |

2. Actual dollars expended in this Program (includes Carryover Funds from previous years)

| Extension | | Research | |
|--------------------------------|-----------------------|-----------------------|-----------------------|
| Smith-Lever 3b & 3c | 1890 Extension | Hatch | Evans-Allen |
| 0 | 0 | 77809 | 0 |
| 1862 Matching | 1890 Matching | 1862 Matching | 1890 Matching |
| 0 | 0 | 0 | 0 |
| 1862 All Other | 1890 All Other | 1862 All Other | 1890 All Other |
| 0 | 0 | 0 | 0 |

V(D). Planned Program (Activity)**1. Brief description of the Activity**

Students associated with the project received Geographic Information System (GIS) training. Training consisted of both theoretical understanding of concepts associated with GIS as well as a practical application of its uses in social science research. The knowledge gained from the project has been infused into course curricula. Project staff has worked with Howard University's Urban Affairs Office and has shared information pertaining to the project that coincides with the mission of this office. In particular, this office was tasked by the Mayor's Office to perform an evaluation of the District's outreach families' services program. Project staff shared information regarding juvenile crime and geographic information with this office that was useful for the overall final analysis. In addition, the project staff has forged a partnership with the National Organization of Black Law Enforcement Executives (NOBLE). The project staff is working in conjunction with NOBLE to host a town hall meeting with juveniles, parents, community members, and law enforcement officers to gain insight into the causes of juvenile violent crime in the District of Columbia.

2. Brief description of the target audience

The target audiences for the outputs include policy makers as well as social scientists, and community activists.

V(E). Planned Program (Outputs)**1. Standard output measures****Target for the number of persons (contacts) reached through direct and indirect contact methods**

| | Direct Contacts Adults | Indirect Contacts Adults | Direct Contacts Youth | Indirect Contacts Youth |
|-------------|-----------------------------------|-------------------------------------|----------------------------------|------------------------------------|
| Year | Target | Target | Target | Target |
| Plan | 0 | 0 | 0 | 0 |
| 2007 | 0 | 0 | 0 | 0 |

2. Number of Patent Applications Submitted (Standard Research Output)**Patent Applications Submitted****Year Target****Plan:** 0

2007 : 0

Patents listed**3. Publications (Standard General Output Measure)****Number of Peer Reviewed Publications**

| | Extension | Research | Total |
|-------------|------------------|-----------------|--------------|
| Plan | | | |
| 2007 | 0 | 0 | 0 |

V(F). State Defined Outputs**Output Target****Output #1****Output Measure**

- Acquiring street crime data from the Metropolitan Police Department data; securing electronic homicide database information;

| Year | Target | Actual |
|-------------|---------------|---------------|
| 2007 | 0 | 1 |

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

| O No. | Outcome Name |
|-------|--|
| 1 | Number of criminal justice majors who obtain exposure to basic research. |

Outcome #1**1. Outcome Measures**

Number of criminal justice majors who obtain exposure to basic research.

2. Associated Institution Types

- 1862 Research

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 25 | 25 |

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

Student participants in this research process include both graduate and undergraduate students at the University of the District of Columbia, Trinity College, and Howard University.

What has been done

Students involved in this research project have received Geographic Information Systems (GIS) training.

Results

Students have gained a theoretical understanding of concepts associated with GIS as well as a practical application of its uses in social science research.

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|---------|---|
| 803 | Sociological and Technological Change Affecting Individuals, Families and Communities |
| 903 | Communication, Education, and Information Delivery |

V(H). Planned Program (External Factors)**External factors which affected outcomes**

- Other ()

Brief Explanation**V(I). Planned Program (Evaluation Studies and Data Collection)****1. Evaluation Studies Planned**

- Retrospective (post program)
- Before-After (before and after program)
- Other ()

Evaluation Results**Key Items of Evaluation**

Program #6**V(A). Planned Program (Summary)****1. Name of the Planned Program**

A Model of Macrophage Particulate Matter Air Pollution Interactions

V(B). Program Knowledge Area(s)**1. Program Knowledge Areas and Percentage**

| KA Code | Knowledge Area | %1862 Extension | %1890 Extension | %1862 Research | %1890 Research |
|---------|------------------------------------|-----------------|-----------------|----------------|----------------|
| 723 | Hazards to Human Health and Safety | 100% | | 100% | |
| | Total | 100% | | 100% | |

V(C). Planned Program (Inputs)**1. Actual amount of professional FTE/SYs expended this Program**

| Year: 2007 | Extension | | Research | |
|---------------|-----------|------|----------|------|
| | 1862 | 1890 | 1862 | 1890 |
| Plan | 0.0 | 0.0 | 0.6 | 0.0 |
| Actual | 0.0 | 0.0 | 0.6 | 0.0 |

2. Actual dollars expended in this Program (includes Carryover Funds from previous years)

| Extension | | Research | |
|---------------------|----------------|----------------|----------------|
| Smith-Lever 3b & 3c | 1890 Extension | Hatch | Evans-Allen |
| 0 | 0 | 76958 | 0 |
| 1862 Matching | 1890 Matching | 1862 Matching | 1890 Matching |
| 0 | 0 | 0 | 0 |
| 1862 All Other | 1890 All Other | 1862 All Other | 1890 All Other |
| 0 | 0 | 0 | 0 |

V(D). Planned Program (Activity)**1. Brief description of the Activity**

A poster presentation: A Model of Macrophage-Particulate Air Pollution Interactions was presented at the 64th Annual Joint Meeting of the National Institute of Science and Beta Kappa Chi Honor Society, Greensboro, NC in March 2007. The PI, Dr. Rosie Sneed, provided mentorship to two student researchers, introducing them to various techniques required for the current project.

2. Brief description of the target audience

There are two target audiences for the results generated by this proposal:

- a) The biomedical research community will be targeted due the potential of this model to both screen candidate anti-asthma drugs and further investigate the cellular nature of macrophage responses to particulate air pollution; and
- b) Public health officials will be targeted due to the potential of this model to identify local areas where high concentrations of toxic particulate air pollution exists.

V(E). Planned Program (Outputs)**1. Standard output measures****Target for the number of persons (contacts) reached through direct and indirect contact methods**

| | Direct Contacts Adults | Indirect Contacts Adults | Direct Contacts Youth | Indirect Contacts Youth |
|-------------|-----------------------------------|-------------------------------------|----------------------------------|------------------------------------|
| Year | Target | Target | Target | Target |
| Plan | 0 | 0 | 0 | 0 |
| 2007 | 0 | 0 | 0 | 0 |

2. Number of Patent Applications Submitted (Standard Research Output)**Patent Applications Submitted****Year Target****Plan:** 0

2007 : 0

Patents listed**3. Publications (Standard General Output Measure)****Number of Peer Reviewed Publications**

| | Extension | Research | Total |
|-------------|------------------|-----------------|--------------|
| Plan | | | |
| 2007 | 0 | 0 | 0 |

V(F). State Defined Outputs**Output Target****Output #1****Output Measure**

- Once a model has been established, it can be used to screen compounds that maybe effective in the treatment of asthma or to

| Year | Target | Actual |
|-------------|---------------|---------------|
| 2007 | 0 | 1 |

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

| O No. | Outcome Name |
|-------|--|
| 1 | Development of an in vitro model of the biological effects of particulate air pollution. |

Outcome #1**1. Outcome Measures**

Development of an in vitro model of the biological effects of particulate air pollution.

2. Associated Institution Types

•1862 Research

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 0 | 0 |

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

There is a high incidence of asthma amongst District of Columbia residents.

What has been done

Experiments have been conducted via techniques to include use of basic cell culture methodology, cell counting, cell freezing, protein extracting and quantitation, and Western blotting.

Results

A pro-inflammatory control needs to be added to our original research protocol. The change will be made.

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|---------|------------------------------------|
| 723 | Hazards to Human Health and Safety |

V(H). Planned Program (External Factors)**External factors which affected outcomes**

- Other ()

Brief Explanation**V(I). Planned Program (Evaluation Studies and Data Collection)****1. Evaluation Studies Planned**

- Retrospective (post program)
- Other ()

Evaluation Results**Key Items of Evaluation**

Program #7**V(A). Planned Program (Summary)****1. Name of the Planned Program**

Integrated Pest Management in Urban Gardens

V(B). Program Knowledge Area(s)**1. Program Knowledge Areas and Percentage**

| KA Code | Knowledge Area | %1862 Extension | %1890 Extension | %1862 Research | %1890 Research |
|---------|------------------------------------|-----------------|-----------------|----------------|----------------|
| 216 | Integrated Pest Management Systems | 100% | | 100% | |
| | Total | 100% | | 100% | |

V(C). Planned Program (Inputs)**1. Actual amount of professional FTE/SYs expended this Program**

| Year: 2007 | Extension | | Research | |
|---------------|-----------|------|----------|------|
| | 1862 | 1890 | 1862 | 1890 |
| Plan | 0.0 | 0.0 | 1.2 | 0.0 |
| Actual | 0.0 | 0.0 | 0.9 | 0.0 |

2. Actual dollars expended in this Program (includes Carryover Funds from previous years)

| Extension | | Research | |
|---------------------|----------------|----------------|----------------|
| Smith-Lever 3b & 3c | 1890 Extension | Hatch | Evans-Allen |
| 0 | 0 | 71049 | 0 |
| 1862 Matching | 1890 Matching | 1862 Matching | 1890 Matching |
| 0 | 0 | 0 | 0 |
| 1862 All Other | 1890 All Other | 1862 All Other | 1890 All Other |
| 0 | 0 | 0 | 0 |

V(D). Planned Program (Activity)**1. Brief description of the Activity**

No specific workshops, presentations or demonstrations were held for IPM. Pest controls are accomplished in the sustainable agriculture field plots where no synthetic chemicals are used to control pests in our urban gardens; we are using cultural practices such as:

1. Intercropping, e.g. snap beans with cabbage resistant varieties
2. Crop diversification e.g. alternating cool season varieties such as lettuce, broccoli and cabbage in one field for one season and in the next season these varieties are followed by corn, cucumber and snap beans.

2. Brief description of the target audience

- urban gardeners
- small rural farmers
- businesses
- landscapers
- nursery owners

V(E). Planned Program (Outputs)**1. Standard output measures****Target for the number of persons (contacts) reached through direct and indirect contact methods**

| | Direct Contacts Adults | Indirect Contacts Adults | Direct Contacts Youth | Indirect Contacts Youth |
|------|---------------------------|-----------------------------|--------------------------|----------------------------|
| Year | Target | Target | Target | Target |
| Plan | 0 | 0 | 0 | 0 |
| 2007 | 0 | 0 | 0 | 0 |

2. Number of Patent Applications Submitted (Standard Research Output)**Patent Applications Submitted**

| | |
|-------------|---------------|
| Year | Target |
| Plan: | 0 |
| 2007 : | 0 |

Patents listed**3. Publications (Standard General Output Measure)****Number of Peer Reviewed Publications**

| | Extension | Research | Total |
|------|-----------|----------|-------|
| Plan | | | |
| 2007 | 0 | 0 | 0 |

V(F). State Defined Outputs**Output Target****Output #1****Output Measure**

- Presentation at SARE meeting. Workshops conducted for both vegetable and flower gardeners, providing instructions for mor

| | | |
|-------------|---------------|---------------|
| Year | Target | Actual |
| 2007 | 1 | 0 |

V(G). State Defined Outcomes**V. State Defined Outcomes Table of Content**

| O No. | Outcome Name |
|-------|---|
| 1 | Number of program participants who practice learned techniques in their gardens. |
| 2 | Percentage of increase in the number of rooftop, vacant lots, and balcony gardens for food production and beautification. |

Outcome #1**1. Outcome Measures**

Number of program participants who practice learned techniques in their gardens.

2. Associated Institution Types

•1862 Research

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 0 | 15 |

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

Gardeners in the Washington Metropolitan area have serious problems with the Mexican and cucumber beetles in their squash and cucumber production. Several diseases are also affecting the production of tomato, cabbage, lettuce, broccoli and cauliflower. Among these diseases are anthracnose, fusarium wilt, blossom end rot, damping off and various other fungus infections. Many of the gardeners in the District of Columbia are reluctant to use chemical pesticides to control insects and diseases.

What has been done

Due to the inability to find someone with expertise in the IPM area all work in this program has been accomplished through the SARE Program.

Results

Urban gardeners, extension agents and other agriculturally related para-professionals are able to apply low input techniques to maintain ornamental and vegetable gardens without the use of harmful chemicals that may affect the their health, the environment, food, and other plants.

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|---------|------------------------------------|
| 216 | Integrated Pest Management Systems |

Outcome #2**1. Outcome Measures**

Percentage of increase in the number of rooftop, vacant lots, and balcony gardens for food production and beautification.

2. Associated Institution Types

•1862 Research

3a. Outcome Type:

Change in Condition Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 0 | 0 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Urban gardening is an instrumental means for residents of the District of Columbia to raise their own fresh, organic fruits and vegetables for consumption and/or sale.

What has been done

No statistics are available on the number of roof tops or balcony gardens.

Results

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|---------|------------------------------------|
| 216 | Integrated Pest Management Systems |

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Other ()

Brief Explanation

Due to the inability to find someone with expertise in the IPM area all work in this program has been accomplished through the SARE Program.

V(I). Planned Program (Evaluation Studies and Data Collection)

1. Evaluation Studies Planned

- Before-After (before and after program)

Evaluation Results

Key Items of Evaluation

Program #8**V(A). Planned Program (Summary)****1. Name of the Planned Program**

Sustainable Agricultural Techniques for Growing Vegetables

V(B). Program Knowledge Area(s)**1. Program Knowledge Areas and Percentage**

| KA Code | Knowledge Area | %1862 Extension | %1890 Extension | %1862 Research | %1890 Research |
|---------|--------------------------|-----------------|-----------------|----------------|----------------|
| 205 | Plant Management Systems | 100% | | 100% | |
| | Total | 100% | | 100% | |

V(C). Planned Program (Inputs)**1. Actual amount of professional FTE/SYs expended this Program**

| Year: 2007 | Extension | | Research | |
|---------------|-----------|------|----------|------|
| | 1862 | 1890 | 1862 | 1890 |
| Plan | 0.0 | 0.0 | 1.1 | 0.0 |
| Actual | 0.0 | 0.0 | 0.9 | 0.0 |

2. Actual dollars expended in this Program (includes Carryover Funds from previous years)

| Extension | | Research | |
|---------------------|----------------|----------------|----------------|
| Smith-Lever 3b & 3c | 1890 Extension | Hatch | Evans-Allen |
| 0 | 0 | 86052 | 0 |
| 1862 Matching | 1890 Matching | 1862 Matching | 1890 Matching |
| 0 | 0 | 0 | 0 |
| 1862 All Other | 1890 All Other | 1862 All Other | 1890 All Other |
| 0 | 0 | 0 | 0 |

V(D). Planned Program (Activity)**1. Brief description of the Activity**

Training focused on teaching residents the appropriate use of low input techniques such as using cow manure and composted yard waste as soil amendments for growing crops in an urban environment. Teachers participating in the "Ag in the Classroom" program received training in the use of low input techniques for growing fruits and vegetables in urban areas in the District of Columbia. These teachers, in turn, have developed garden projects in order to educate their students on the principles of sustainable agriculture and generate an interest in gardening that is safe for residents and the environment within their communities.

2. Brief description of the target audience

The target groups of this professional development program are urban gardeners of the Washington Metropolitan Area, extension agents at the University of the District of Columbia, technicians from local lawn and garden companies, landscape architects, and other individuals who may wish to learn how to successfully grow plants for both indoor and outdoor purposes. Additionally, this program will train DC Public School teachers who are introducing sustainable agriculture as a part of extra curricula activities in their instructional program.

V(E). Planned Program (Outputs)**1. Standard output measures****Target for the number of persons (contacts) reached through direct and indirect contact methods**

| | Direct Contacts Adults | Indirect Contacts Adults | Direct Contacts Youth | Indirect Contacts Youth |
|-------------|-----------------------------------|-------------------------------------|----------------------------------|------------------------------------|
| Year | Target | Target | Target | Target |
| Plan | 0 | 0 | 0 | 0 |
| 2007 | 0 | 0 | 0 | 0 |

2. Number of Patent Applications Submitted (Standard Research Output)**Patent Applications Submitted****Year Target****Plan:** 0

2007 : 0

Patents listed**3. Publications (Standard General Output Measure)****Number of Peer Reviewed Publications**

| | Extension | Research | Total |
|-------------|------------------|-----------------|--------------|
| Plan | | | |
| 2007 | 0 | 0 | 0 |

V(F). State Defined Outputs**Output Target****Output #1****Output Measure**

- Experiments, training sessions, demonstrations, field activities, and farm tours will be held for participants to teach them/updat

| Year | Target | Actual |
|-------------|---------------|---------------|
| 2007 | 0 | 1 |

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

| O No. | Outcome Name |
|-------|---|
| 1 | Number of participants who have an increased knowledge of horticultural techniques. |
| 2 | Number of participants who are assisting community gardeners to establish and maintain gardens. |

Outcome #1**1. Outcome Measures**

Number of participants who have an increased knowledge of horticultural techniques.

2. Associated Institution Types

•1862 Research

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 1 | 15 |

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

Urban gardening is an important activity in the lives of residents in the District of Columbia, including youth and seniors. The project provides training, demonstrations, and field trips to assist novice and master gardeners, lawn technicians, teachers, and extension agents with establishing and maintaining vegetable and ornamental projects in both cool and warm seasons in the District of Columbia.

What has been done

Seminar for 10 Ag in the classroom teachers.

(b) Workshops on sustainable agriculture for teachers in the District of Columbia public school system. There were seventeen participants in this workshop.

Results

Nine teachers have developed gardening as part of their instruction program.

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|---------|--------------------------|
| 205 | Plant Management Systems |

Outcome #2**1. Outcome Measures**

Number of participants who are assisting community gardeners to establish and maintain gardens.

2. Associated Institution Types

•1862 Research

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 25 | 0 |

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

Urban gardening is an important activity in the lives of residents in the District of Columbia, including youth and seniors.

What has been done

There have been telephone inquiries regarding establishment of urban gardens which have been addressed by the researcher.

Results

Direction were given by researcher as to how to establish and set up gardens for spring, summer and winter crops.

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|----------------|--------------------------|
| 205 | Plant Management Systems |

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Other ()

Brief Explanation

A field day was scheduled at the farm for July 20th, but because of the severe hot drought conditions this field trip was cancelled. An INFO DOC is now being prepared describing the adverse effects of this drought on our urban gardens.

V(I). Planned Program (Evaluation Studies and Data Collection)

1. Evaluation Studies Planned

- Retrospective (post program)
- Other ()

Evaluation Results

Key Items of Evaluation

Program #9**V(A). Planned Program (Summary)****1. Name of the Planned Program**

Effect of Pelletized Maure on Vegetable Production and Vadose

V(B). Program Knowledge Area(s)**1. Program Knowledge Areas and Percentage**

| KA Code | Knowledge Area | %1862 Extension | %1890 Extension | %1862 Research | %1890 Research |
|---------|--------------------------|-----------------|-----------------|----------------|----------------|
| 205 | Plant Management Systems | 100% | | 100% | |
| | Total | 100% | | 100% | |

V(C). Planned Program (Inputs)**1. Actual amount of professional FTE/SYs expended this Program**

| Year: 2007 | Extension | | Research | |
|---------------|-----------|------|----------|------|
| | 1862 | 1890 | 1862 | 1890 |
| Plan | 0.0 | 0.0 | 1.1 | 0.0 |
| Actual | 0.0 | 0.0 | 0.3 | 0.0 |

2. Actual dollars expended in this Program (includes Carryover Funds from previous years)

| Extension | | Research | |
|---------------------|----------------|----------------|----------------|
| Smith-Lever 3b & 3c | 1890 Extension | Hatch | Evans-Allen |
| 0 | 0 | 0 | 0 |
| 1862 Matching | 1890 Matching | 1862 Matching | 1890 Matching |
| 0 | 0 | 0 | 0 |
| 1862 All Other | 1890 All Other | 1862 All Other | 1890 All Other |
| 0 | 0 | 0 | 0 |

V(D). Planned Program (Activity)**1. Brief description of the Activity**

The Pelletized Poultry Manure Project was devastated in FY 2007, because of the severe drought that we had. Please note at this point that this is purely a research project and does not involve outreach programs as yet.

We have grown one crop of collards and one of sweet corn, but because of the drought the results have been inconclusive.

So far, we found that the highest yield of collards was obtained in plots given 1800lbs/acre of poultry pellets as the soil amendments. Data for the sweet corn has not yet been analyzed.

We have placed lysemeters at there levels in the soil (6", 18" and 36") to measure soil moisture and nitrate nitrogen in the poultry manure treated soil. Again, because of drought conditions the results have been inconclusive. In general at 18" depth the soil depths were so dry that no water or nitrate samples could be collected.

2. Brief description of the target audience

Our main target audience is the urban gardeners of the District of Columbia, lawn and other landscape operators and park services maintenance groups.

V(E). Planned Program (Outputs)**1. Standard output measures**

Target for the number of persons (contacts) reached through direct and indirect contact methods

| | Direct Contacts Adults | Indirect Contacts Adults | Direct Contacts Youth | Indirect Contacts Youth |
|------|---------------------------|-----------------------------|--------------------------|----------------------------|
| Year | Target | Target | Target | Target |
| Plan | 0 | 0 | 0 | 0 |
| 2007 | 0 | 0 | 0 | 0 |

2. Number of Patent Applications Submitted (Standard Research Output)**Patent Applications Submitted**

Year Target

Plan: 0

2007 : 0

Patents listed**3. Publications (Standard General Output Measure)****Number of Peer Reviewed Publications**

| | Extension | Research | Total |
|------|-----------|----------|-------|
| Plan | | | |
| 2007 | 0 | 0 | 0 |

V(F). State Defined Outputs**Output Target****Output #1****Output Measure**

- Vegetable crops response to growth and yield of vegetables, the correct amount of poultry pellets to be applied, measurement

| Year | Target | Actual |
|------|--------|--------|
| 2007 | 0 | 0 |

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

| O No. | Outcome Name |
|-------|---|
| 1 | Number of farmers who have experienced productivity from the use of pelletized manure on vegetable crops. |

Outcome #1**1. Outcome Measures**

Number of farmers who have experienced productivity from the use of pelletized manure on vegetable crops.

2. Associated Institution Types

•1862 Research

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 0 | 0 |

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

Poultry manure that is applied to farm land as soil amendment is said to be a major source of such pollution. Therefore, this project is very important since the results will tell us if the nitrate from the manure is a potential pollutant and if so, at what level of application does it become a problem.

This is an issue which affects all of us since we all rely on our ground water for drinking and other domestic uses.

What has been done**Results****4. Associated Knowledge Areas**

| KA Code | Knowledge Area |
|---------|--------------------------|
| 205 | Plant Management Systems |

V(H). Planned Program (External Factors)**External factors which affected outcomes**

- Other ()

Brief Explanation

The Pelletized Poultry Manure Project was devastated in FY 2007, because of the severe drought that we had.

V(I). Planned Program (Evaluation Studies and Data Collection)**1. Evaluation Studies Planned**

- Retrospective (post program)
- Other ()

Evaluation Results**Key Items of Evaluation**

Program #10**V(A). Planned Program (Summary)****1. Name of the Planned Program**

Youth Environmental Life Sciences

V(B). Program Knowledge Area(s)**1. Program Knowledge Areas and Percentage**

| KA Code | Knowledge Area | %1862 Extension | %1890 Extension | %1862 Research | %1890 Research |
|---------|--|-----------------|-----------------|----------------|----------------|
| 903 | Communication, Education, and Information Delivery | 100% | | 100% | |
| | Total | 100% | | 100% | |

V(C). Planned Program (Inputs)**1. Actual amount of professional FTE/SYs expended this Program**

| Year: 2007 | Extension | | Research | |
|---------------|-------------------|-------------------|-------------------|-------------------|
| | 1862 | 1890 | 1862 | 1890 |
| Plan | 0.0 | 0.0 | 1.9 | 0.0 |
| Actual | {NO DATA ENTERED} | {NO DATA ENTERED} | {NO DATA ENTERED} | {NO DATA ENTERED} |

2. Actual dollars expended in this Program (includes Carryover Funds from previous years)

| Extension | | Research | |
|---|--|--|--|
| Smith-Lever 3b & 3c {NO DATA ENTERED} | 1890 Extension {NO DATA ENTERED} | Hatch {NO DATA ENTERED} | Evans-Allen {NO DATA ENTERED} |
| 1862 Matching {NO DATA ENTERED} | 1890 Matching {NO DATA ENTERED} | 1862 Matching {NO DATA ENTERED} | 1890 Matching {NO DATA ENTERED} |
| 1862 All Other {NO DATA ENTERED} | 1890 All Other {NO DATA ENTERED} | 1862 All Other {NO DATA ENTERED} | 1890 All Other {NO DATA ENTERED} |

V(D). Planned Program (Activity)**1. Brief description of the Activity**

- 1) Show the correlation between the Adopt-Block Topical area's and the District of Columbia Public School standards for Life Science; by doing this the course materials provided should be quickly adopted and implemented in the classroom
- 2) Staff development sessions
- 3) Comprehensive training provided to instructors, administrators and parent tutors
- 4) New lessons will be designed by the project instructors based on training, research, collaboration and partner contributions
- 5) Student poster contest session

2. Brief description of the target audience

The project's target populations are students, teachers, parents/guardians who serve in the project as mentors/tutors/chaperones and administrators from grades K-12 in the ten schools listed below:

- Woodson Senior High School
- Clara Mohammed
- Savoy Elementary School
- Fletcher Johnson Education Center
- Stanton Elementary School
- PR Harris

E ducation Center

- Moten Elementary School
- Moten Special Education Center
- Birney Elementary School
- Patterson Elementary School

V(E). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons (contacts) reached through direct and indirect contact methods

| | Direct Contacts Adults | Indirect Contacts Adults | Direct Contacts Youth | Indirect Contacts Youth |
|------|---------------------------|-----------------------------|--------------------------|----------------------------|
| Year | Target | Target | Target | Target |
| Plan | 0 | 0 | 0 | 0 |
| 2007 | 0 | 0 | 0 | 0 |

2. Number of Patent Applications Submitted (Standard Research Output)

Patent Applications Submitted

| | |
|--------|-------------------|
| Year | Target |
| Plan: | 0 |
| 2007 : | {No Data Entered} |

Patents listed

{No Data Entered}

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

| | Extension | Research | Total |
|------|-------------------|-------------------|-------|
| Plan | | | |
| 2007 | {No Data Entered} | {No Data Entered} | 0 |

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- We will show the correlation between the Adopt-Block Topical area's and the District of Columbia Public School standards for

| Year | Target | Actual |
|------|--------|--------|
| 2007 | 1 | 0 |

V(G). State Defined Outcomes**V. State Defined Outcomes Table of Content**

| O No. | Outcome Name |
|-------|---|
| 1 | Increase in student attendance in science classes. |
| 2 | Number of instructors to receive District recertification and State licensing while preparing for National certification. |

Outcome #1**1. Outcome Measures**

Increase in student attendance in science classes.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 25 | 0 |

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)****What has been done****Results****4. Associated Knowledge Areas**

| KA Code | Knowledge Area |
|---------|--|
| 903 | Communication, Education, and Information Delivery |

Outcome #2**1. Outcome Measures**

Number of instructors to receive District recertification and State licensing while preparing for National certification.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Condition Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 5 | 0 |

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)****What has been done****Results**

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|----------------|--|
| 903 | Communication, Education, and Information Delivery |

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Other ()

Brief Explanation

V(I). Planned Program (Evaluation Studies and Data Collection)

1. Evaluation Studies Planned

- Retrospective (post program)
- Other ()

Evaluation Results

Key Items of Evaluation

Program #11**V(A). Planned Program (Summary)****1. Name of the Planned Program**

4-H and Youth Development

V(B). Program Knowledge Area(s)**1. Program Knowledge Areas and Percentage**

| KA Code | Knowledge Area | %1862 Extension | %1890 Extension | %1862 Research | %1890 Research |
|---------|-------------------|-----------------|-----------------|----------------|----------------|
| 806 | Youth Development | 100% | | 0% | |
| | Total | 100% | | 0% | |

V(C). Planned Program (Inputs)**1. Actual amount of professional FTE/SYs expended this Program**

| Year: 2007 | Extension | | Research | |
|---------------|-----------|------|----------|------|
| | 1862 | 1890 | 1862 | 1890 |
| Plan | 1.2 | 0.0 | 0.0 | 0.0 |
| Actual | 0.8 | 0.0 | 0.0 | 0.0 |

2. Actual dollars expended in this Program (includes Carryover Funds from previous years)

| Extension | | Research | |
|------------------------------|---------------------|---------------------|---------------------|
| Smith-Lever 3b & 3c 31956 | 1890 Extension 0 | Hatch 0 | Evans-Allen 0 |
| 1862 Matching 31956 | 1890 Matching 0 | 1862 Matching 0 | 1890 Matching 0 |
| 1862 All Other 0 | 1890 All Other 0 | 1862 All Other 0 | 1890 All Other 0 |

V(D). Planned Program (Activity)**1. Brief description of the Activity**

Leadership Development meetings

Leadership development training was provided for each established club and for summer camp participants. Community clubs were given leadership development training curriculum that was implemented by the volunteer leaders.

Woodworking projects

Woodworking projects were completed by 4-H participants over a 10 month period with the assistance of the volunteer leader and an extension agent.

- Language program - Spanish

Military 4-H club members and afterschool clubs learned Spanish as a part of their 4-H club activities

- Gardening projects

Military 4-H club participants completed gardening beautification projects on their installations. They received information and direction from a professional landscaper.

- Water quality research and GIS Technology

4-H clovers learned basic GPS and GIS technology. They collected water samples from the 8 wards in the District of Columbia and mapped their findings. Teen 4-Hers learned GPS technology and mapped selected environmental conditions in Washington, DC.

- Computer Labs/Cyber Camp Projects

Younger 4-Hers (8-12) learned Microsoft technology and used power point presentations to express what they learned and to share future aspirations. Teen 4-Hers learned advanced computing with the JEF program and participated in national competitions.

- Nutrition Programs

Nutrition programs were provided to the military youth by our Nutrition specialist for the Cooperative Extension Service to help them create meals without using the stove. (Ages 5-12) Nutrition and fitness classes were provided for older 4-H participants.

- 4-H Globalization Program

a twenty four week 4-H project was implemented for teen 4-Hers to help them understand global issues. They completed research at an area mall to learn where merchandise comes to the United States from. They attended college's classes with assigned college students around thirteen global issues and received specialized training from two volunteer professors. They tasted food from other countries and visited embassies for programming created just for them.

- 4-H Science Engineering and Technology Program

Programs offering the opportunity to explore Science (including sustainable agriculture) Engineering and Technology was provided to both clovers and teen 4-Hers.

- 4-H Summer camp Program

Six weeks of 4-H programming was provided at no cost to the parents for children from the District of Columbia.

- 4-H Military Projects

A host of activities were implemented exclusively for the children in the military. They also traveled to Canada to represent the 4-H leadership development program.

2. Brief description of the target audience

Primarily Youth, but also adults and seniors.

V(E). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons (contacts) reached through direct and indirect contact methods

| | Direct Contacts Adults | Indirect Contacts Adults | Direct Contacts Youth | Indirect Contacts Youth |
|------|---------------------------|-----------------------------|--------------------------|----------------------------|
| Year | Target | Target | Target | Target |
| Plan | 75 | 0 | 5000 | 10500 |
| 2007 | 1000 | 1000 | 15524 | 17914 |

2. Number of Patent Applications Submitted (Standard Research Output)**Patent Applications Submitted**

| Year | Target |
|------|--------|
|------|--------|

| | |
|-------|---|
| Plan: | 0 |
|-------|---|

| | |
|--------|---|
| 2007 : | 0 |
|--------|---|

Patents listed**3. Publications (Standard General Output Measure)****Number of Peer Reviewed Publications**

| | Extension | Research | Total |
|-------------|-----------|----------|-------|
| Plan | | | |
| 2007 | 0 | 0 | 0 |

V(F). State Defined Outputs**Output Target****Output #1****Output Measure**

- Children improve confidence.

| Year | Target | Actual |
|------|--------|--------|
| 2007 | 2000 | 15524 |

Output #2**Output Measure**

- Children discover new opportunities and learn the essential elements of team work.

| Year | Target | Actual |
|------|--------|--------|
| 2007 | 5000 | 15524 |

Output #3**Output Measure**

- Children learn responsibility to others and success through persistence.

| Year | Target | Actual |
|------|--------|--------|
| 2007 | 4000 | 15524 |

Output #4**Output Measure**

- 11000

| Year | Target | Actual |
|------|-------------------|--------|
| 2007 | {No Data Entered} | 46572 |

V(G). State Defined Outcomes**V. State Defined Outcomes Table of Content**

| O No. | Outcome Name |
|-------|---|
| 1 | Increase in the number of 4-H clubs throughout the city. |
| 2 | Increase in the number of 4-H participants representing Washington, DC at the 4-H National Congress Annual Program. |
| 3 | Number of 4-H participants returning to volunteer in the program after high school. |

Outcome #1**1. Outcome Measures**

Increase in the number of 4-H clubs throughout the city.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 10 | 29 |

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

Each of the (8) ward representatives in the District of Columbia are looking for quality programming for our youth. The public, private and charter school community has partnered with us to present programming. The local military installations are working with us to deliver services to the children of deployed parents.

What has been done

Recruitment information regarding 4-H has been posted on the UDC 4-H web page. State to state collaboratives have been established with neighboring states and we have developed clubs in schools in the afterschool hours. Volunteer leaders training have been implemented to train new volunteers and provide additional support from the other volunteers.

Results

29 clubs were established and a four week (2006) and six week (2007) summer camp program was implemented housing 144 youth and training an additional 60 teens in working in the office environment.

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|---------|-------------------|
| 806 | Youth Development |

Outcome #2**1. Outcome Measures**

Increase in the number of 4-H participants representing Washington, DC at the 4-H National Congress Annual Program.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 2000 | 17220 |

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

Studies show that at risk children are at less risk of failing in school and being involved in community violence if they are involved in productive activities after school with responsible adults. Through the 4-H and Youth Development Program we improve leadership skills and allow children to explore their full potential. They see that there are appreciated and have support from caring adults. In the District of Columbia civic leaders, parents and school officials are seeking programs that engage children in positive experiences and keep them away from drugs and violence that can rob them of their opportunity for success

What has been done

We have worked with 29 established community and afterschool clubs. We offer monthly volunteer leaders training opportunities and assist volunteer leaders in applying for 4-H funds. All 4-H programs offer young people the opportunity to explore their full potential and develop skills that they have both never considered and want to learn more about. The 4-H summer camping programs in the District of Columbia offers seven different camps to children annually. Three of which are provided by the university departments. All of our camping programs are free to participants from the District of Columbia.

The cost of summer camp for the military families with deployed parents can be a problem because of limited resources. With one income is missing from the family children may be left alone with little physical activity and little opportunity to explore for the summer.

We also provide specialized programs that address the needs of young people in the unique urban setting that is Washington, DC. These programs include Sewing Entrepreneurship camp, Sustainable agricultural research for other countries, international leadership development, and Go Global, a program about global issues.

Results

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|----------------|-----------------------|
| 806 | Youth Development |

Outcome #3

1. Outcome Measures

Number of 4-H participants returning to volunteer in the program after high school.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Condition Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|-------------|----------------------------|---------------|
| 2007 | 500 | 50 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

On a very large scale the students that live in the District of Columbia continue on to college after high school. They also find employment to begin to establish themselves. Currently we have two college students on staff that were once volunteers in the 4-H afterschool programs. WE have been unable to have a large number of volunteers from established clubs. We have volunteers from both Spingarn High School and Eastern High school.

What has been done

Recruitment information has been distributed to high school seniors inviting them to volunteer with local 4-H and after school programs.

Results

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|---------|-------------------|
| 806 | Youth Development |

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Appropriations changes
- Government Regulations

Brief Explanation

V(I). Planned Program (Evaluation Studies and Data Collection)

1. Evaluation Studies Planned

- Before-After (before and after program)

Evaluation Results

We have evaluated the Afterschool 4-H programs and each workshop presented to 4-H volunteer leaders.

80 % of the children in the DC Reads program in (2006) increased their reading skills and 70% of the children in the DC Reads program increased their abilities in the reading during the program year.

Key Items of Evaluation

We used thelossen exam for the evaluation of the children in the reading programs and surveys after the programs for children in regular 4-H programs. We also complete evaluations from the site supervisors, volunteer leaders, school teachers and parents.

Program #12**V(A). Planned Program (Summary)****1. Name of the Planned Program**

D.C. Reads

V(B). Program Knowledge Area(s)**1. Program Knowledge Areas and Percentage**

| KA Code | Knowledge Area | %1862 Extension | %1890 Extension | %1862 Research | %1890 Research |
|---------|-------------------|-----------------|-----------------|----------------|----------------|
| 806 | Youth Development | 100% | | 100% | |
| | Total | 100% | | 100% | |

V(C). Planned Program (Inputs)**1. Actual amount of professional FTE/SYs expended this Program**

| Year: 2007 | Extension | | Research | |
|---------------|-----------|------|----------|------|
| | 1862 | 1890 | 1862 | 1890 |
| Plan | 3.5 | 0.0 | 0.0 | 0.0 |
| Actual | 0.8 | 0.0 | 0.0 | 0.0 |

2. Actual dollars expended in this Program (includes Carryover Funds from previous years)

| Extension | | Research | |
|---------------------|----------------|----------------|----------------|
| Smith-Lever 3b & 3c | 1890 Extension | Hatch | Evans-Allen |
| 85507 | 0 | 0 | 0 |
| 1862 Matching | 1890 Matching | 1862 Matching | 1890 Matching |
| 85507 | 0 | 0 | 0 |
| 1862 All Other | 1890 All Other | 1862 All Other | 1890 All Other |
| 107163 | 0 | 0 | 0 |

V(D). Planned Program (Activity)**1. Brief description of the Activity**

•DC Reads tutors (primarily college students) are hired and trained to work with youth identified through testing as being in need of assistance to read and comprehend reading material better. Youth are tested to determine potential reading problems. Tutors travel to assigned schools or after-school programs Monday through Friday to work with assigned students in a variety of interactive and fun activities designed to improve reading skills. Structured and repetitive training processes help to ensure individual success no matter at what level the students enter the program.

Students are retested to determine how much their reading skills have improved.

2. Brief description of the target audience

- youth
- adults
- senior citizens
- military personnel
- all residents of the District of Columbia

V(E). Planned Program (Outputs)**1. Standard output measures****Target for the number of persons (contacts) reached through direct and indirect contact methods**

| | Direct Contacts Adults | Indirect Contacts Adults | Direct Contacts Youth | Indirect Contacts Youth |
|-------------|-----------------------------------|-------------------------------------|----------------------------------|------------------------------------|
| Year | Target | Target | Target | Target |
| Plan | 25 | 0 | 500 | 0 |
| 2007 | 0 | 0 | 5734 | 17220 |

2. Number of Patent Applications Submitted (Standard Research Output)**Patent Applications Submitted****Year Target****Plan:** 0

2007 : 0

Patents listed**3. Publications (Standard General Output Measure)****Number of Peer Reviewed Publications**

| | Extension | Research | Total |
|-------------|------------------|-----------------|--------------|
| Plan | | | |
| 2007 | 0 | 0 | 0 |

V(F). State Defined Outputs**Output Target****Output #1****Output Measure**

- DC Reads tutors (primarily college students) are hired and trained to work with youth identified through testing as being in need

| Year | Target | Actual |
|-------------|---------------|---------------|
| 2007 | 4000 | 0 |

V(G). State Defined Outcomes**V. State Defined Outcomes Table of Content**

| O No. | Outcome Name |
|-------|--|
| 1 | Number of participants having greater success in school. |
| 2 | Percentage of increase in participation of students in the DC Reads Program. |
| 3 | Percentage of students who increased their reading skills. |

Outcome #1**1. Outcome Measures**

Number of participants having greater success in school.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Condition Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 3000 | 0 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|---------|-------------------|
| 806 | Youth Development |

Outcome #2**1. Outcome Measures**

Percentage of increase in participation of students in the DC Reads Program.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 75 | 0 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|---------|-------------------|
| 806 | Youth Development |

Outcome #3

1. Outcome Measures

Percentage of students who increased their reading skills.

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 50 | 0 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|---------|-------------------|
| 806 | Youth Development |

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Other ()

Brief Explanation

V(I). Planned Program (Evaluation Studies and Data Collection)

1. Evaluation Studies Planned

- Before-After (before and after program)

Evaluation Results

{No Data Entered}

Key Items of Evaluation

{No Data Entered}

Program #13**V(A). Planned Program (Summary)****1. Name of the Planned Program**

Water Quality Monitoring and Education

V(B). Program Knowledge Area(s)**1. Program Knowledge Areas and Percentage**

| KA Code | Knowledge Area | %1862 Extension | %1890 Extension | %1862 Research | %1890 Research |
|---------|---|-----------------|-----------------|----------------|----------------|
| 111 | Conservation and Efficient Use of Water | 100% | | 0% | |
| | Total | 100% | | 0% | |

V(C). Planned Program (Inputs)**1. Actual amount of professional FTE/SYs expended this Program**

| Year: 2007 | Extension | | Research | |
|---------------|-----------|------|----------|------|
| | 1862 | 1890 | 1862 | 1890 |
| Plan | 1.0 | 0.0 | 0.0 | 0.0 |
| Actual | 1.5 | 0.0 | 0.0 | 0.0 |

2. Actual dollars expended in this Program (includes Carryover Funds from previous years)

| Extension | | Research | |
|------------------------------|---------------------|---------------------|---------------------|
| Smith-Lever 3b & 3c 60953 | 1890 Extension 0 | Hatch 0 | Evans-Allen 0 |
| 1862 Matching 60953 | 1890 Matching 0 | 1862 Matching 0 | 1890 Matching 0 |
| 1862 All Other 9395 | 1890 All Other 0 | 1862 All Other 0 | 1890 All Other 0 |

V(D). Planned Program (Activity)**1. Brief description of the Activity**

•Collaborate and work with Mid-Atlantic Regional Water Program

Integrated and established collaboration with Mid-Atlantic Regional Water Program in October 2006 to enhance Water Quality Education in the District of Columbia. Wrote proposals for the program and was awarded 3 grants to expend Water Quality Education in the community. Water Quality Educational materials were purchased and distributed to elementary schools, high schools and community centers. Also, rain garden implemented at elementary school to introduce new techniques to enhance reduction of water pollution. Cooperative Extension Service Water Quality Education Program (WQEP) is participated in Mid-Atlantic Regional Water Program Steering Committee to improve water quality in the District and the Nation. To day, University of the District of Columbia is one of the members of the Mid-Atlantic Regional Water Program. UDC WQEP was awarded \$500.00 from 1890 Land-Grant Universities Water Quality Program to attend Water Quality Monitoring Conference in Nashville, Tennessee on November 6, and 7, 2006. Project is implemented in the District through the fund awarded from Mid-Atlantic Regional Water Program.

•Conduct research on water quality

•Researches on water quality were conducted for writing grant proposals, distributing fact sheets, brochures, and developing water quality educational Power Point to conduct workshop. Topics such as "How Water Contaminated", "The impact of contaminated water on health", "Lead in Drinking Water", "E-coli in Drinking Water" "Agriculture & Water" and "Water Conservation" were researched to obtain updated in formations

•Water Quality workshops/activities

•Water Quality Workshops were conducted in elementary, high schools, and community recreation centers in Washington DC. 342 activities were conducted to disseminate water quality education. To enhance water quality education coordinated, meetings, work shops, implementing projects and participate in Expos are the major activities perpetuate water education in the District of Columbia. Coordinated and Met with Region 3 Water Quality Program, Kamit Institute for Magnificent Achievers School's Director and teachers, Water Resource Research Institute (WRRI), Mid-Atlantic Steering committee, DC Department of Water Resource, DC Water Quality Department, DC Green Day Celebration Program, Marshall Heights Community Development Organization, Inc, and 1890 and 1994 Land Grant Universities. Participated in international water workshop, U.S Environmental Protection Agent (EPA) Water Quality Education Department and received from EPA "Drinking water Standards & Health Effects, Drinking water Glossary, and Lead in Your Drinking Water" fact sheets 200 each to distribute at Water Quality Workshop. Water Quality Education participated in National Water Conference, at Savannah, GA, "Extreme Water Conference" in Maryland, Water Education Expo in Navy Yard in Washington DC, Conference on "Hazards in Water resources" at Boise, Idaho, King Greenleaf Recreation's Health Day exhibition in SW, Washington DC, "Elemental Analysis Technical Seminar" at College Park, MD, "Low Impact Development Project" at Maryland University, Collage Park, MD. Frequently meeting was conducted with UDCWRRI, Biology Department, Computer Science, and Engineering Department to discuss on future project on Water Quality Issues in the University of the District of Columbia and in the District of Columbia.

•Curriculum developed for various workshops, fact sheets, and newsletters.

•WQEP produced curriculum to conduct workshop at school and community centers. " Water Conservation", Lead in Drinking Water" " Rain Garden" Green Roof", " Water Cycle" "Safe drinking water" "Non-Point Sources of water pollution" "The effect of water contamination on human health" "What is global warming?" "Coliform and E.coli in drinking water" "Heavy metal and drinking water" has been used to educate the community on water issues.

2. Brief description of the target audience

All residents in the District of Columbia.

V(E). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons (contacts) reached through direct and indirect contact methods

| | Direct Contacts Adults | Indirect Contacts Adults | Direct Contacts Youth | Indirect Contacts Youth |
|-------------|-----------------------------------|-------------------------------------|----------------------------------|------------------------------------|
| Year | Target | Target | Target | Target |
| Plan | 7000 | 0 | 0 | 0 |
| 2007 | 4943 | 2798 | 1600 | 7965 |

2. Number of Patent Applications Submitted (Standard Research Output)**Patent Applications Submitted**

| | |
|-------------|---------------|
| Year | Target |
|-------------|---------------|

| | |
|--------------|---|
| Plan: | 0 |
|--------------|---|

| | |
|--------|---|
| 2007 : | 0 |
|--------|---|

Patents listed**3. Publications (Standard General Output Measure)****Number of Peer Reviewed Publications**

| | Extension | Research | Total |
|-------------|------------------|-----------------|--------------|
| Plan | | | |
| 2007 | 0 | 0 | 0 |

V(F). State Defined Outputs**Output Target****Output #1****Output Measure**

- Collaborate and work with Mid-Atlantic Regional Water Program.

| | | |
|-------------|---------------|---------------|
| Year | Target | Actual |
| 2007 | 2000 | 0 |

Output #2**Output Measure**

- Water Quality workshops/activities; Curriculum development for various workshops; Fact sheets, and newsletters

| | | |
|-------------|---------------|---------------|
| Year | Target | Actual |
| 2007 | 7000 | 7965 |

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

| O No. | Outcome Name |
|-------|---|
| 1 | Number of participants who gained knowledge on water quality. |
| 2 | Number of participants who understand the value of water monitoring. |
| 3 | Percentage of the increased number of residents drinking Washington DC tap water. |

Outcome #1**1. Outcome Measures**

Number of participants who gained knowledge on water quality.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 6000 | 0 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|---------|---|
| 111 | Conservation and Efficient Use of Water |

Outcome #2**1. Outcome Measures**

Number of participants who understand the value of water monitoring.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 6000 | 0 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|----------------|---|
| 111 | Conservation and Efficient Use of Water |

Outcome #3**1. Outcome Measures**

Percentage of the increased number of residents drinking Washington DC tap water.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Condition Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|-------------|----------------------------|---------------|
| 2007 | 20 | 0 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|----------------|---|
| 111 | Conservation and Efficient Use of Water |

V(H). Planned Program (External Factors)**External factors which affected outcomes**

- Populations changes (immigration,new cultural groupings,etc.)

Brief Explanation

Population changes have an effect on the water resources, because of the increased production of non-point source pollution. More over, the lack of water resource awareness in the District of Columbia residents and the absence of policy to encourage residents to attend water quality workshops has a major effect on the out comes.

V(I). Planned Program (Evaluation Studies and Data Collection)**1. Evaluation Studies Planned**

- Before-After (before and after program)

Evaluation Results

Workshop Pre-test and Post-test show an 80%. increase in water quality awarness and knowledge.

Key Items of Evaluation

Program #14**V(A). Planned Program (Summary)****1. Name of the Planned Program**

Agriculture in the Classroom

V(B). Program Knowledge Area(s)**1. Program Knowledge Areas and Percentage**

| KA Code | Knowledge Area | %1862 Extension | %1890 Extension | %1862 Research | %1890 Research |
|---------|--|-----------------|-----------------|----------------|----------------|
| 704 | Nutrition and Hunger in the Population | 100% | | 0% | |
| | Total | 100% | | 0% | |

V(C). Planned Program (Inputs)**1. Actual amount of professional FTE/SYs expended this Program**

| Year: 2007 | Extension | | Research | |
|---------------|-----------|------|----------|------|
| | 1862 | 1890 | 1862 | 1890 |
| Plan | 0.8 | 0.0 | 0.0 | 0.0 |
| Actual | 1.4 | 0.0 | 0.0 | 0.0 |

2. Actual dollars expended in this Program (includes Carryover Funds from previous years)

| Extension | | Research | |
|---------------------|----------------|----------------|----------------|
| Smith-Lever 3b & 3c | 1890 Extension | Hatch | Evans-Allen |
| 52128 | 0 | 0 | 0 |
| 1862 Matching | 1890 Matching | 1862 Matching | 1890 Matching |
| 52128 | 0 | 0 | 0 |
| 1862 All Other | 1890 All Other | 1862 All Other | 1890 All Other |
| 0 | 0 | 0 | 0 |

V(D). Planned Program (Activity)**1. Brief description of the Activity**

Eight workshop sessions taught by university and external experts in the field of agriculture is provided to reinforce the District of Columbia Public and Private Schools Standards of Learning and the goals/objectives of the National and Local Agriculture in the Classroom Program. The workshop sessions include an Orientation, Sustainable Agriculture and Careers, Six Hour Internet Course, Field Trip to the Agricultural Research Service (includes hands-on experiences in science and nutrition and tour of the facility), Internet Practicum and Teacher Presentations (teachers sharing individually developed lesson plans and exhibits). Following the workshop sessions, implementation of AITC, Celebrate National Ag Week and Ag Day, Classroom Observation to see "AITC" in action. Ending each year with student evaluations and teacher comments.

Agriculture in the Classroom (AITC) and Kids Growing Food (KGF). The AITC Program completed its 9th year providing agricultural activities that increased Ag literacy and awareness for teachers and students in the District of Columbia. A total of 115 students were beneficiaries of the program. CES entered into a partnership with Cornell University's "Kids Growing Food" and made it the hands-on component to AITC. An outgrowth of this partnership made it possible for eighteen DC schools to become involved in food gardening, and created an understanding of the connection between farming, food gardens and nutrition.

FoodPrints is an outgrowth of the following collaborative group: The American Institute of Wine and Food/ DC's Days of Taste Chapter, FreshFarm Markets, National Arboretum's Youth Garden and Agriculture in the Classroom/ Kids Growing Food. FoodPrints provides DC 4th and 5th graders exciting, educational experiences with local farmers and Renowned DC chefs in the classroom. This program also allows students to have food gardening experiences. Three computer games were developed by a student intern and a student aide under the direction of the AITC Coordinator. The objective of the games is to increase Ag awareness and literacy by including agricultural content in familiar and fun games to students in grades 3-8. The three games are: Ag Feud, Ag-Man and Ag Jeopardy. These games were field tested in the summer of 2007, and piloted and critiqued by two DCPS teachers. The plan is to distribute 10,000 copies throughout the united States via the AITC and 4-H Programs.

2. Brief description of the target audience

- District of Columbia teachers
- Students grades Pre-K-9

V(E). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons (contacts) reached through direct and indirect contact methods

| | Direct Contacts Adults | Indirect Contacts Adults | Direct Contacts Youth | Indirect Contacts Youth |
|------|---------------------------|-----------------------------|--------------------------|----------------------------|
| Year | Target | Target | Target | Target |
| Plan | 80 | 0 | 2000 | 0 |
| 2007 | 219 | 0 | 1065 | 0 |

2. Number of Patent Applications Submitted (Standard Research Output)

Patent Applications Submitted

| | |
|--------|--------|
| Year | Target |
| Plan: | 0 |
| 2007 : | 0 |

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

| | Extension | Research | Total |
|------|-----------|----------|-------|
| Plan | | | |
| 2007 | 0 | 0 | 0 |

V(F). State Defined Outputs**Output Target****Output #1****Output Measure**

- 8 workshops for teachers

| Year | Target | Actual |
|-------------|---------------|---------------|
| 2007 | 80 | 64 |

V(G). State Defined Outcomes**V. State Defined Outcomes Table of Content**

| O No. | Outcome Name |
|-------|--|
| 1 | Number of students who have increased knowledge as to where and how food is grown. |
| 2 | Percentage of students and teachers in grades Pre-K through 12 with increased agriculture literacy. |
| 3 | Number of teachers who have increased their awareness, knowledge, and understanding of agriculture, nutrition, and food gardening. |

Outcome #1**1. Outcome Measures**

Number of students who have increased knowledge as to where and how food is grown.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 1800 | 0 |

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

Children in the District of Columbia have no direct contact with the farming community. They lack practical knowledge of how the food gets from the farm to the table in the homes. They are also very unfamiliar with the careers offered in the agricultural field.

What has been done

Mini grants were offered to a school in each of the eight wards in the District of Columbia to educate the children through a train the trainer method. Teachers were given innovative ways of delivering agricultural information to the children in their schools. They were also given curriculum, and specialized training about securing additional information from the internet.

Results

Teachers made poster presentations about the lesson plans they would implement with the children. The research associate assigned to the project made follow up visits to the schools to document their accomplishments.

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|---------|--|
| 704 | Nutrition and Hunger in the Population |

Outcome #2**1. Outcome Measures**

Percentage of students and teachers in grades Pre-K through 12 with increased agriculture literacy.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Condition Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 90 | 200 |

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

What has been done**Results****4. Associated Knowledge Areas**

| KA Code | Knowledge Area |
|---------|--|
| 704 | Nutrition and Hunger in the Population |

Outcome #3**1. Outcome Measures**

Number of teachers who have increased their awareness, knowledge, and understanding of agriculture, nutrition, and food gardening.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 80 | 0 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results**4. Associated Knowledge Areas**

| KA Code | Knowledge Area |
|---------|--|
| 704 | Nutrition and Hunger in the Population |

V(H). Planned Program (External Factors)**External factors which affected outcomes**

- Appropriations changes
- Government Regulations
- Competing Public priorities
- Other ()

Brief Explanation**V(I). Planned Program (Evaluation Studies and Data Collection)****1. Evaluation Studies Planned**

- Retrospective (post program)
- During (during program)

Evaluation Results

Key Items of Evaluation

Program #15**V(A). Planned Program (Summary)****1. Name of the Planned Program**

Renewable Resources Extension Act (RREA)

V(B). Program Knowledge Area(s)**1. Program Knowledge Areas and Percentage**

| KA Code | Knowledge Area | %1862 Extension | %1890 Extension | %1862 Research | %1890 Research |
|---------|--|-----------------|-----------------|----------------|----------------|
| 102 | Soil, Plant, Water, Nutrient Relationships | 100% | | 100% | |
| | Total | 100% | | 100% | |

V(C). Planned Program (Inputs)**1. Actual amount of professional FTE/SYs expended this Program**

| Year: 2007 | Extension | | Research | |
|---------------|-----------|------|----------|------|
| | 1862 | 1890 | 1862 | 1890 |
| Plan | 0.3 | 0.0 | 0.0 | 0.0 |
| Actual | 0.3 | 0.0 | 0.0 | 0.0 |

2. Actual dollars expended in this Program (includes Carryover Funds from previous years)

| Extension | | Research | |
|---------------------|----------------|----------------|----------------|
| Smith-Lever 3b & 3c | 1890 Extension | Hatch | Evans-Allen |
| 0 | 0 | 0 | 0 |
| 1862 Matching | 1890 Matching | 1862 Matching | 1890 Matching |
| 0 | 0 | 0 | 0 |
| 1862 All Other | 1890 All Other | 1862 All Other | 1890 All Other |
| 0 | 0 | 0 | 0 |

V(D). Planned Program (Activity)**1. Brief description of the Activity**

Through advanced trainings, Master Gardeners will learn how to monitor, how to notice unusual symptoms, learn how to collect, package and send samples, and how to rule out false cases. After the training, Master Gardeners will educate the public through a variety of methods: plant clinics, workshops, speaking engagements, publish and distribute literature i.e. brochures, fact sheets etc. to inform D.C. Residents of Sudden Oak Death.

Conduct 3 evening trainings on plant pathology and Sudden Oak Death Detector Training by trained Plant Pathologist and Certified Arborist for Master Gardeners for D.C. Residents to be educated in the symptoms of Sudden Oak Death on host plants and Oak trees. After plant material is identified, D.C. Residents are encouraged to send infected samples to the Maryland Department of Agriculture Plant Pathology Lab for testing.

2. Brief description of the target audience

District of Columbia residents

V(E). Planned Program (Outputs)**1. Standard output measures****Target for the number of persons (contacts) reached through direct and indirect contact methods**

| | Direct Contacts Adults | Indirect Contacts Adults | Direct Contacts Youth | Indirect Contacts Youth |
|-------------|-----------------------------------|-------------------------------------|----------------------------------|------------------------------------|
| Year | Target | Target | Target | Target |
| Plan | 100 | 0 | 0 | 0 |
| 2007 | 37 | 1000 | 0 | 0 |

2. Number of Patent Applications Submitted (Standard Research Output)**Patent Applications Submitted****Year Target****Plan:** 0

2007 : 0

Patents listed**3. Publications (Standard General Output Measure)****Number of Peer Reviewed Publications**

| | Extension | Research | Total |
|-------------|------------------|-----------------|--------------|
| Plan | | | |
| 2007 | 0 | 0 | 0 |

V(F). State Defined Outputs**Output Target****Output #1****Output Measure**

- Through advanced trainings, Master Gardeners will learn how to monitor, how to notice unusual symptoms, learn how to collect

| Year | Target | Actual |
|-------------|---------------|---------------|
| 2007 | 100 | 0 |

V(G). State Defined Outcomes**V. State Defined Outcomes Table of Content**

| O No. | Outcome Name |
|-------|--|
| 1 | Number of master gardeners who gained knowledge on exotic and emerging plant pests. |
| 2 | Number of master gardeners who have gained an understanding of how to monitor, collect, package, and send samples. |
| 3 | Increase of public knowledge and awareness of plant pests and diseases. |

Outcome #1**1. Outcome Measures**

Number of master gardeners who gained knowledge on exotic and emerging plant pests.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 90 | 0 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|---------|--|
| 102 | Soil, Plant, Water, Nutrient Relationships |

Outcome #2**1. Outcome Measures**

Number of master gardeners who have gained an understanding of how to monitor, collect, package, and send samples.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 100 | 0 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|---------|--|
| 102 | Soil, Plant, Water, Nutrient Relationships |

Outcome #3

1. Outcome Measures

Increase of public knowledge and awareness of plant pests and diseases.

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Condition Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 8000 | 0 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|---------|--|
| 102 | Soil, Plant, Water, Nutrient Relationships |

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Appropriations changes
- Government Regulations
- Other (freeze on grant funding)

Brief Explanation

V(I). Planned Program (Evaluation Studies and Data Collection)

1. Evaluation Studies Planned

- After Only (post program)
- Other ()

Evaluation Results

Key Items of Evaluation

Program #16**V(A). Planned Program (Summary)****1. Name of the Planned Program**

Home Lawn and Gardening

V(B). Program Knowledge Area(s)**1. Program Knowledge Areas and Percentage**

| KA Code | Knowledge Area | %1862 Extension | %1890 Extension | %1862 Research | %1890 Research |
|---------|--|-----------------|-----------------|----------------|----------------|
| 102 | Soil, Plant, Water, Nutrient Relationships | 100% | | 0% | |
| | Total | 100% | | 0% | |

V(C). Planned Program (Inputs)**1. Actual amount of professional FTE/SYs expended this Program**

| Year: 2007 | Extension | | Research | |
|---------------|-----------|------|----------|------|
| | 1862 | 1890 | 1862 | 1890 |
| Plan | 0.3 | 0.0 | 0.0 | 0.0 |
| Actual | 0.8 | 0.0 | 0.0 | 0.0 |

2. Actual dollars expended in this Program (includes Carryover Funds from previous years)

| Extension | | Research | |
|------------------------------|---------------------|---------------------|---------------------|
| Smith-Lever 3b & 3c 33291 | 1890 Extension 0 | Hatch 0 | Evans-Allen 0 |
| 1862 Matching 33291 | 1890 Matching 0 | 1862 Matching 0 | 1890 Matching 0 |
| 1862 All Other 0 | 1890 All Other 0 | 1862 All Other 0 | 1890 All Other 0 |

V(D). Planned Program (Activity)**1. Brief description of the Activity**

- Distribute fact sheets and brochures
- Conduct workshops
- Commercial and residential site assessments visits
- Phone consultations
- Soil testing

2. Brief description of the target audience

D.C. Residents

V(E). Planned Program (Outputs)**1. Standard output measures****Target for the number of persons (contacts) reached through direct and indirect contact methods**

| | Direct Contacts Adults | Indirect Contacts Adults | Direct Contacts Youth | Indirect Contacts Youth |
|-------------|-----------------------------------|-------------------------------------|----------------------------------|------------------------------------|
| Year | Target | Target | Target | Target |
| Plan | 60 | 0 | 0 | 0 |
| 2007 | 19524 | 0 | 0 | 0 |

2. Number of Patent Applications Submitted (Standard Research Output)**Patent Applications Submitted**

Year Target
Plan: 0
 2007 : 0

Patents listed**3. Publications (Standard General Output Measure)****Number of Peer Reviewed Publications**

| | Extension | Research | Total |
|-------------|------------------|-----------------|--------------|
| Plan | | | |
| 2007 | 0 | 0 | 0 |

V(F). State Defined Outputs**Output Target****Output #1****Output Measure**

- Number of workshops conducted.

| Year | Target | Actual |
|-------------|---------------|---------------|
| 2007 | 30 | 38 |

Output #2**Output Measure**

- Fact sheets will be developed and distributed to residents

| Year | Target | Actual |
|-------------|---------------|---------------|
| 2007 | 5000 | 7798 |

Output #3**Output Measure**

- commercial and residential site assessments visits, phone consultations, and soil testing

| Year | Target | Actual |
|-------------|-------------------|---------------|
| 2007 | {No Data Entered} | 11688 |

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

| O No. | Outcome Name |
|-------|--|
| 1 | Gain knowledge on lawn beautification |
| 2 | Number of participants changing their habits of fertilizing their lawns so the excess run off does not go into the Chesapeake Bay. |

Outcome #1**1. Outcome Measures**

Gain knowledge on lawn beautification

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 400 | 0 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|---------|--|
| 102 | Soil, Plant, Water, Nutrient Relationships |

Outcome #2**1. Outcome Measures**

Number of participants changing their habits of fertilizing their lawns so the excess run off does not go into the Chesapeake Bay.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Condition Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 50 | 0 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|----------------|--|
| 102 | Soil, Plant, Water, Nutrient Relationships |

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Appropriations changes
- Government Regulations

Brief Explanation

V(I). Planned Program (Evaluation Studies and Data Collection)

1. Evaluation Studies Planned

- Retrospective (post program)

Evaluation Results

Key Items of Evaluation

Program #17**V(A). Planned Program (Summary)****1. Name of the Planned Program**

Washington Metropolitan Area Transit Authority Advanced Landscape Program

V(B). Program Knowledge Area(s)**1. Program Knowledge Areas and Percentage**

| KA Code | Knowledge Area | %1862 Extension | %1890 Extension | %1862 Research | %1890 Research |
|---------|--|-----------------|-----------------|----------------|----------------|
| 102 | Soil, Plant, Water, Nutrient Relationships | 100% | | 100% | |
| | Total | 100% | | 100% | |

V(C). Planned Program (Inputs)**1. Actual amount of professional FTE/SYs expended this Program**

| Year: 2007 | Extension | | Research | |
|---------------|-----------|------|----------|------|
| | 1862 | 1890 | 1862 | 1890 |
| Plan | 0.3 | 0.0 | 0.0 | 0.0 |
| Actual | 0.8 | 0.0 | 0.0 | 0.0 |

2. Actual dollars expended in this Program (includes Carryover Funds from previous years)

| Extension | | Research | |
|------------------------------|---------------------|---------------------|---------------------|
| Smith-Lever 3b & 3c 33291 | 1890 Extension 0 | Hatch 0 | Evans-Allen 0 |
| 1862 Matching 33291 | 1890 Matching 0 | 1862 Matching 0 | 1890 Matching 0 |
| 1862 All Other 0 | 1890 All Other 0 | 1862 All Other 0 | 1890 All Other 0 |

V(D). Planned Program (Activity)**1. Brief description of the Activity**

- Facilitate and coordinate a three week educational training
- Administrate and negotiate contract between WMATA officials
- Provide educational materials and lecturers to WMATA employees

2. Brief description of the target audience

Landscape employees from WMATA.

V(E). Planned Program (Outputs)**1. Standard output measures****Target for the number of persons (contacts) reached through direct and indirect contact methods**

| | Direct Contacts Adults | Indirect Contacts Adults | Direct Contacts Youth | Indirect Contacts Youth |
|-------------|-----------------------------------|-------------------------------------|----------------------------------|------------------------------------|
| Year | Target | Target | Target | Target |
| Plan | 100 | 0 | 0 | 0 |
| 2007 | 0 | 0 | 0 | 0 |

2. Number of Patent Applications Submitted (Standard Research Output)**Patent Applications Submitted****Year Target****Plan:** 0

2007 : 0

Patents listed**3. Publications (Standard General Output Measure)****Number of Peer Reviewed Publications**

| | Extension | Research | Total |
|-------------|------------------|-----------------|--------------|
| Plan | | | |
| 2007 | 0 | 0 | 0 |

V(F). State Defined Outputs**Output Target****Output #1****Output Measure**

- Facilitate and coordinate a three week educational training.

| Year | Target | Actual |
|-------------|---------------|---------------|
| 2007 | 75 | 0 |

V(G). State Defined Outcomes**V. State Defined Outcomes Table of Content**

| O No. | Outcome Name |
|-------|--|
| 1 | Number of participants gaining knowledge and skills and landscaping. |
| 2 | Percentage of participants who apply skills to their jobs. |
| 3 | The beautification of acres of land in the Washington Metropolitan Area that WMATA maintains annual promotions for employees who have successfully completed the mandatory training. |

Outcome #1**1. Outcome Measures**

Number of participants gaining knowledge and skills and landscaping.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 60 | 0 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|---------|--|
| 102 | Soil, Plant, Water, Nutrient Relationships |

Outcome #2**1. Outcome Measures**

Percentage of participants who apply skills to their jobs.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 100 | 0 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|----------------|--|
| 102 | Soil, Plant, Water, Nutrient Relationships |

Outcome #3**1. Outcome Measures**

The beautification of acres of land in the Washington Metropolitan Area that WMATA maintains annual promotions for employees who have successfully completed the mandatory training.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Condition Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|-------------|----------------------------|---------------|
| 2007 | 60 | 0 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|----------------|--|
| 102 | Soil, Plant, Water, Nutrient Relationships |

V(H). Planned Program (External Factors)**External factors which affected outcomes**

- Appropriations changes
- Government Regulations
- Competing Public priorities

Brief Explanation**V(I). Planned Program (Evaluation Studies and Data Collection)****1. Evaluation Studies Planned**

- After Only (post program)

Evaluation Results**Key Items of Evaluation**

Program #18**V(A). Planned Program (Summary)****1. Name of the Planned Program**

Master Gardener/Junior Master Gardener

V(B). Program Knowledge Area(s)**1. Program Knowledge Areas and Percentage**

| KA Code | Knowledge Area | %1862 Extension | %1890 Extension | %1862 Research | %1890 Research |
|---------|--|-----------------|-----------------|----------------|----------------|
| 102 | Soil, Plant, Water, Nutrient Relationships | 100% | | 0% | |
| | Total | 100% | | 0% | |

V(C). Planned Program (Inputs)**1. Actual amount of professional FTE/SYs expended this Program**

| Year: 2007 | Extension | | Research | |
|---------------|-----------|------|----------|------|
| | 1862 | 1890 | 1862 | 1890 |
| Plan | 0.3 | 0.0 | 0.0 | 0.0 |
| Actual | 0.8 | 0.0 | 0.0 | 0.0 |

2. Actual dollars expended in this Program (includes Carryover Funds from previous years)

| Extension | | Research | |
|---------------------|----------------|----------------|----------------|
| Smith-Lever 3b & 3c | 1890 Extension | Hatch | Evans-Allen |
| 33291 | 0 | 0 | 0 |
| 1862 Matching | 1890 Matching | 1862 Matching | 1890 Matching |
| 33291 | 0 | 0 | 0 |
| 1862 All Other | 1890 All Other | 1862 All Other | 1890 All Other |
| 0 | 0 | 0 | 0 |

V(D). Planned Program (Activity)**1. Brief description of the Activity**

- Workshops
- Demonstrations
- Junior Gardener Clubs

2. Brief description of the target audience

- District of Columbia Residents
- Youth - Grades 3-8

V(E). Planned Program (Outputs)**1. Standard output measures****Target for the number of persons (contacts) reached through direct and indirect contact methods**

| | Direct Contacts Adults | Indirect Contacts Adults | Direct Contacts Youth | Indirect Contacts Youth |
|-------------|-----------------------------------|-------------------------------------|----------------------------------|------------------------------------|
| Year | Target | Target | Target | Target |
| Plan | 35 | 0 | 500 | 0 |
| 2007 | 37 | 6252 | 562 | 0 |

2. Number of Patent Applications Submitted (Standard Research Output)**Patent Applications Submitted****Year Target****Plan:** 0

2007 : 0

Patents listed**3. Publications (Standard General Output Measure)****Number of Peer Reviewed Publications**

| | Extension | Research | Total |
|-------------|------------------|-----------------|--------------|
| Plan | | | |
| 2007 | 0 | 0 | 0 |

V(F). State Defined Outputs**Output Target****Output #1****Output Measure**

- The preparation of a minimum of 35 Master Gardeners a year in the winter will have an important impact on residents of the D

| Year | Target | Actual |
|-------------|---------------|---------------|
| 2007 | 535 | 0 |

V(G). State Defined Outcomes**V. State Defined Outcomes Table of Content**

| O No. | Outcome Name |
|-------|---|
| 1 | Number of participants who gain knowledge of gardening techniques. |
| 2 | Percentage of increase in the number of resident gardens in the District of Columbia. |
| 3 | Percentage of decrease of the negative Impact on the Environment |

Outcome #1**1. Outcome Measures**

Number of participants who gain knowledge of gardening techniques.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 500 | 0 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|---------|--|
| 102 | Soil, Plant, Water, Nutrient Relationships |

Outcome #2**1. Outcome Measures**

Percentage of increase in the number of resident gardens in the District of Columbia.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 50 | 0 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|---------|--|
| 102 | Soil, Plant, Water, Nutrient Relationships |

Outcome #3

1. Outcome Measures

Percentage of decrease of the negative Impact on the Environment

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Condition Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 95 | 0 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|---------|--|
| 102 | Soil, Plant, Water, Nutrient Relationships |

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Appropriations changes
- Government Regulations

Brief Explanation

V(I). Planned Program (Evaluation Studies and Data Collection)

1. Evaluation Studies Planned

- After Only (post program)
- During (during program)

Evaluation Results

Key Items of Evaluation

Program #19**V(A). Planned Program (Summary)****1. Name of the Planned Program**

Integrated Pest Mgmt for the Sustained Reduction of Pest Population in Low Income Urban Households

V(B). Program Knowledge Area(s)**1. Program Knowledge Areas and Percentage**

| KA Code | Knowledge Area | %1862 Extension | %1890 Extension | %1862 Research | %1890 Research |
|---------|--|-----------------|-----------------|----------------|----------------|
| 721 | Insects and Other Pests Affecting Humans | 100% | | 0% | |
| | Total | 100% | | 0% | |

V(C). Planned Program (Inputs)**1. Actual amount of professional FTE/SYs expended this Program**

| Year: 2007 | Extension | | Research | |
|---------------|-----------|------|----------|------|
| | 1862 | 1890 | 1862 | 1890 |
| Plan | 0.5 | 0.0 | 0.0 | 0.0 |
| Actual | 0.6 | 0.0 | 0.0 | 0.0 |

2. Actual dollars expended in this Program (includes Carryover Funds from previous years)

| Extension | | Research | |
|---------------------|----------------|----------------|----------------|
| Smith-Lever 3b & 3c | 1890 Extension | Hatch | Evans-Allen |
| 37769 | 0 | 0 | 0 |
| 1862 Matching | 1890 Matching | 1862 Matching | 1890 Matching |
| 37769 | 0 | 0 | 0 |
| 1862 All Other | 1890 All Other | 1862 All Other | 1890 All Other |
| 0 | 0 | 0 | 0 |

V(D). Planned Program (Activity)**1. Brief description of the Activity**

•

Workshops for residents

•Residents were told how they could reduce the pest levels in their homes. The importance of sanitation, exclusion and clutter reduction were included. Proper use of baits and traps was also discussed

Home visits and intervention

•25 homes were visited Bait was used to control roaches. Residents were encouraged to keep their apartments clean and clutter free. Follow-up has been difficult. Many of the residents have not been home for their scheduled appointment. As of 4/2008 we are focusing on the senior building. I believe we can get more consistent participation. We are also adding a privately owned and managed subsidized apartment complex to the project

2. Brief description of the target audience

Low income residents of Washington DC, primarily those in multi family housing.

V(E). Planned Program (Outputs)**1. Standard output measures****Target for the number of persons (contacts) reached through direct and indirect contact methods**

| | Direct Contacts Adults | Indirect Contacts Adults | Direct Contacts Youth | Indirect Contacts Youth |
|------|---------------------------|-----------------------------|--------------------------|----------------------------|
| Year | Target | Target | Target | Target |
| Plan | 100 | 250 | 0 | 0 |
| 2007 | 105 | 165842 | 0 | 0 |

2. Number of Patent Applications Submitted (Standard Research Output)**Patent Applications Submitted**

Year Target

Plan: 0

2007 : 0

Patents listed**3. Publications (Standard General Output Measure)****Number of Peer Reviewed Publications**

| | Extension | Research | Total |
|------|-----------|----------|-------|
| Plan | | | |
| 2007 | 0 | 0 | 0 |

V(F). State Defined Outputs**Output Target****Output #1****Output Measure**

- Workshops for residents, home visits and intervention.

| Year | Target | Actual |
|------|--------|--------|
| 2007 | 350 | 421 |

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

| O No. | Outcome Name |
|-------|--|
| 1 | Number of residents that have learned that they do not have to live with vermin. |

Outcome #1**1. Outcome Measures**

Number of residents that have learned that they do not have to live with vermin.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 100 | 421 |

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

In the Washington DC and other urban areas, pesticide misuse and exposure continues to be an ongoing concern. Many residents do not understand the biology of pests. Nor do they understand that there are simple steps they can take to reduce the pest carrying capacity of the home environment. Unfortunately, pesticides are often the first resort of pest control. Very rarely do residents take steps to reduce pest pressure from the outside or to reduce interior carrying capacity. Pesticides are often used with little regard to the label instructions.

The objective of this project is to implement integrated pest management (IPM) to reduce both vector/pest populations and associated allergen exposure in low-income Washington, DC neighborhoods.

What has been done

Pest census data has been collected from 75 apartments at the Potomac Gardens Housing complex. 25 follow-up visits have been completed. Approximately 1,000 fact-sheets have been distributed throughout the city. We are modifying our approach for 2008, to increase participation.

Results

Results have not been as expected. Follow up has been sporadic. Residents have not been consistent in being home for follow up visits. Those that do participate in the program, report a reduction in pest populations. The project has been extended and methodology has been modified. Altering attitudes and human behavior is not nearly as straight forward, as the other components.

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|---------|--|
| 721 | Insects and Other Pests Affecting Humans |

V(H). Planned Program (External Factors)**External factors which affected outcomes**

- Appropriations changes
- Government Regulations
- Competing Programmatic Challenges

Brief Explanation

•Resident Apathy. Could be caused by a couple of things: previous failure of government agencies to deliver; acceptance of pests as part of life and not realizing the health implications of the presence of pests.

•The PI has other duties that sometimes interfere with the process.

• The lack of availability of the property manger to enforce maintenance and sanitation policies.

V(I). Planned Program (Evaluation Studies and Data Collection)**1. Evaluation Studies Planned**

- Before-After (before and after program)
- During (during program)
- Case Study

Evaluation Results

The project is not complete.

Key Items of Evaluation

Program #20**V(A). Planned Program (Summary)****1. Name of the Planned Program**

Pesticide Certification and Training

V(B). Program Knowledge Area(s)**1. Program Knowledge Areas and Percentage**

| KA Code | Knowledge Area | %1862 Extension | %1890 Extension | %1862 Research | %1890 Research |
|---------|------------------------------------|-----------------|-----------------|----------------|----------------|
| 216 | Integrated Pest Management Systems | 100% | | 100% | |
| | Total | 100% | | 100% | |

V(C). Planned Program (Inputs)**1. Actual amount of professional FTE/SYs expended this Program**

| Year: 2007 | Extension | | Research | |
|---------------|-----------|------|----------|------|
| | 1862 | 1890 | 1862 | 1890 |
| Plan | 0.5 | 0.0 | 0.0 | 0.0 |
| Actual | 0.6 | 0.0 | 0.0 | 0.0 |

2. Actual dollars expended in this Program (includes Carryover Funds from previous years)

| Extension | | Research | |
|---------------------|----------------|----------------|----------------|
| Smith-Lever 3b & 3c | 1890 Extension | Hatch | Evans-Allen |
| 61637 | 0 | 0 | 0 |
| 1862 Matching | 1890 Matching | 1862 Matching | 1890 Matching |
| 61637 | 0 | 0 | 0 |
| 1862 All Other | 1890 All Other | 1862 All Other | 1890 All Other |
| 7054 | 0 | 0 | 0 |

V(D). Planned Program (Activity)**1. Brief description of the Activity**

Weekly courses that satisfy the local & state regulatory agencies, so that individuals may qualify to take the applicator exam.

I have developed curricula for core, structural and landscape pest management courses. The DC Dept of the Environment has approved them to be equivalent to 6 months registered employee training; as has the MDA and VDACS. Each course runs twelve weeks 3hr/week plus lab.

2. Brief description of the target audience

Anyone who desires to become a certified pesticide applicator (for hire).

V(E). Planned Program (Outputs)**1. Standard output measures****Target for the number of persons (contacts) reached through direct and indirect contact methods**

| | Direct Contacts Adults | Indirect Contacts Adults | Direct Contacts Youth | Indirect Contacts Youth |
|-------------|-----------------------------------|-------------------------------------|----------------------------------|------------------------------------|
| Year | Target | Target | Target | Target |
| Plan | 225 | 0 | 0 | 0 |
| 2007 | 105 | 0 | 0 | 0 |

2. Number of Patent Applications Submitted (Standard Research Output)**Patent Applications Submitted**

| | |
|--------------|---------------|
| Year | Target |
| Plan: | 0 |
| 2007 : | 0 |

Patents listed**3. Publications (Standard General Output Measure)****Number of Peer Reviewed Publications**

| | Extension | Research | Total |
|-------------|------------------|-----------------|--------------|
| Plan | | | |
| 2007 | 0 | 0 | 0 |

V(F). State Defined Outputs**Output Target****Output #1****Output Measure**

- Weekly courses that satisfy the local & state regulatory agencies, so that individuals may qualify to take the applicator ex:

| | | |
|-------------|---------------|---------------|
| Year | Target | Actual |
| 2007 | 225 | 0 |

V(G). State Defined Outcomes**V. State Defined Outcomes Table of Content**

| O No. | Outcome Name |
|-------|---|
| 1 | Number of participants moving from registered employee status to certified applicator status. |
| 2 | Number of participants receiving a pesticide applicator's license. |
| 3 | Percentage of increase in the number of licensed pesticide applicators in the District of Columbia. |

Outcome #1**1. Outcome Measures**

Number of participants moving from registered employee status to certified applicator status.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 225 | 0 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|---------|------------------------------------|
| 216 | Integrated Pest Management Systems |

Outcome #2**1. Outcome Measures**

Number of participants receiving a pesticide applicator's license.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 225 | 0 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|----------------|------------------------------------|
| 216 | Integrated Pest Management Systems |

Outcome #3**1. Outcome Measures**

Percentage of increase in the number of licensed pesticide applicators in the District of Columbia.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Condition Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|-------------|----------------------------|---------------|
| 2007 | 40 | 0 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|----------------|------------------------------------|
| 216 | Integrated Pest Management Systems |

V(H). Planned Program (External Factors)**External factors which affected outcomes**

- Appropriations changes
- Government Regulations

Brief Explanation**V(I). Planned Program (Evaluation Studies and Data Collection)****1. Evaluation Studies Planned**

- Before-After (before and after program)
- Case Study

Evaluation Results**Key Items of Evaluation**

Program #21**V(A). Planned Program (Summary)****1. Name of the Planned Program**

Nutrition on Demand

V(B). Program Knowledge Area(s)**1. Program Knowledge Areas and Percentage**

| KA Code | Knowledge Area | %1862 Extension | %1890 Extension | %1862 Research | %1890 Research |
|---------|---|-----------------|-----------------|----------------|----------------|
| 702 | Requirements and Function of Nutrients and Other Food Cor | 100% | | 100% | |
| | Total | 100% | | 100% | |

V(C). Planned Program (Inputs)**1. Actual amount of professional FTE/SYs expended this Program**

| Year: 2007 | Extension | | Research | |
|---------------|-----------|------|----------|------|
| | 1862 | 1890 | 1862 | 1890 |
| Plan | 0.8 | 0.0 | 0.0 | 0.0 |
| Actual | 0.8 | 0.0 | 0.0 | 0.0 |

2. Actual dollars expended in this Program (includes Carryover Funds from previous years)

| Extension | | Research | |
|---------------------|----------------|----------------|----------------|
| Smith-Lever 3b & 3c | 1890 Extension | Hatch | Evans-Allen |
| 34610 | 0 | 0 | 0 |
| 1862 Matching | 1890 Matching | 1862 Matching | 1890 Matching |
| 34610 | 0 | 0 | 0 |
| 1862 All Other | 1890 All Other | 1862 All Other | 1890 All Other |
| 0 | 0 | 0 | 0 |

V(D). Planned Program (Activity)**1. Brief description of the Activity**

- Curriculum development for various workshops
- Nutrition related activities
- Cooking demonstrations
- Train the trainer programs
- Health fairs
- Field trips
- Seminars
- Fact sheets, newsletters and brochures will be developed and disseminated.

CHARM School (Choosing Healthy and Rewarding Meals): This Program is grant funded, to address the issues of childhood obesity. It has been implemented in Eastern High School as a pilot program, with participation by 50 students. The program was highlighted on Channel 9. The Diabetes Education Program continues at three sites, and an additional site will be added during fiscal year 2008.

Nutrition on Demand continues to provide services via nutrition education, workshops, health fairs and other events in the city. The extension specialist was interviewed by the Washington Hispanic for two articles and three appearances live on TV Channel 9.

Two hundred and thirty five seniors participated in workshops on Food Safety and Nutrition. Cooking demonstrations on Low fat foods, Healthy thanksgiving sides and Soy foods were well attended. The seniors also learned about the impact of sodium, fiber and sugar in the diet. The Diabetes Nutrition Program was conducted in three sites: Upper Cardozo Clinic, Woodridge Clinic and CCNV Clinic

A total of 330 diabetics attended the program. Blood sugars dropped by 35-50 points in 78% of the participants and by 60-75 points in 52 % of the participants. 50% of the participants experienced weight loss of 25-38 lbs. 26% of the participants were able to decrease the intake of diabetic medications, 10% decreased the intake of insulin and 1 % who were borderline, were able to stop taking medications completely due to their change in diet and exercise.

2. Brief description of the target audience

- Seniors
- Adults
- Youth and Children residing in the District of Columbia

V(E). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons (contacts) reached through direct and indirect contact methods

| | Direct Contacts Adults | Indirect Contacts Adults | Direct Contacts Youth | Indirect Contacts Youth |
|------|---------------------------|-----------------------------|--------------------------|----------------------------|
| Year | Target | Target | Target | Target |
| Plan | 2000 | 0 | 0 | 0 |
| 2007 | 2563 | 0 | 0 | 0 |

2. Number of Patent Applications Submitted (Standard Research Output)

Patent Applications Submitted

| | |
|--------|--------|
| Year | Target |
| Plan: | 0 |
| 2007 : | 0 |

Patents listed

3. Publications (Standard General Output Measure)**Number of Peer Reviewed Publications**

| | Extension | Research | Total |
|-------------|------------------|-----------------|--------------|
| Plan | | | |
| 2007 | 0 | 0 | 0 |

V(F). State Defined Outputs**Output Target****Output #1****Output Measure**

- Curriculum developed for various workshops, nutrition related activities, cooking demonstrations, train the trainer programs, he

| Year | Target | Actual |
|-------------|---------------|---------------|
| 2007 | 1500 | 0 |

V(G). State Defined Outcomes**V. State Defined Outcomes Table of Content**

| O No. | Outcome Name |
|-------|--|
| 1 | Number of participants that improved food choices. |
| 2 | Number of participants who included exercise and experienced slow weight loss. |
| 3 | Percentage of decrease in the risk factors for chronic disease, better management of chronic conditions, weight maintenance and overall improved health. |

Outcome #1**1. Outcome Measures**

Number of participants that improved food choices.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 2000 | 0 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|---------|--|
| 702 | Requirements and Function of Nutrients and Other Food Components |

Outcome #2**1. Outcome Measures**

Number of participants who included exercise and experienced slow weight loss.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 1500 | 0 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|----------------|--|
| 702 | Requirements and Function of Nutrients and Other Food Components |

Outcome #3**1. Outcome Measures**

Percentage of decrease in the risk factors for chronic disease, better management of chronic conditions, weight maintenance and overall improved health.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Condition Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|-------------|----------------------------|---------------|
| 2007 | 30 | 0 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|----------------|--|
| 702 | Requirements and Function of Nutrients and Other Food Components |

V(H). Planned Program (External Factors)**External factors which affected outcomes**

- Appropriations changes
- Government Regulations

Brief Explanation**V(I). Planned Program (Evaluation Studies and Data Collection)****1. Evaluation Studies Planned**

- Before-After (before and after program)
- During (during program)

Evaluation Results**Key Items of Evaluation**

Program #22**V(A). Planned Program (Summary)****1. Name of the Planned Program**

Parenting

V(B). Program Knowledge Area(s)**1. Program Knowledge Areas and Percentage**

| KA Code | Knowledge Area | %1862 Extension | %1890 Extension | %1862 Research | %1890 Research |
|---------|---|-----------------|-----------------|----------------|----------------|
| 802 | Human Development and Family Well-Being | 100% | | 100% | |
| | Total | 100% | | 100% | |

V(C). Planned Program (Inputs)**1. Actual amount of professional FTE/SYs expended this Program**

| Year: 2007 | Extension | | Research | |
|---------------|-----------|------|----------|------|
| | 1862 | 1890 | 1862 | 1890 |
| Plan | 1.0 | 0.0 | 0.0 | 0.0 |
| Actual | 1.8 | 0.0 | 0.0 | 0.0 |

2. Actual dollars expended in this Program (includes Carryover Funds from previous years)

| Extension | | Research | |
|---------------------|----------------|----------------|----------------|
| Smith-Lever 3b & 3c | 1890 Extension | Hatch | Evans-Allen |
| 47406 | 0 | 0 | 0 |
| 1862 Matching | 1890 Matching | 1862 Matching | 1890 Matching |
| 47406 | 0 | 0 | 0 |
| 1862 All Other | 1890 All Other | 1862 All Other | 1890 All Other |
| 40000 | 0 | 0 | 0 |

V(D). Planned Program (Activity)**1. Brief description of the Activity**

- Curriculum development various workshops, seminars, and support groups
- Fact Sheets
- Newsletters

The Parenting Program hired a new Extension agent. The Extension Agent received certification through Catholic Charities and the Center for the Improvement of Child Caring. Eighteen parents completed and graduated from the Parent Empowerment Program that began in July 2007. Partnerships with the East River Family strengthening collaborative, Kenilworth Elementary School and Ronald Brown Middle School have been established to conduct Parenting workshops. A \$3,500 grant from Western Michigan University, funded by the Kellogg Foundation, was received. This grant will help establish and provide a holistic system of services to custodial grandparent families. A series of Parenting Fact sheets were developed on topics as follows:

- Bribe or Not to Bribe
- Parental Involvement in School
- I Still Need Time For Me
- Children and the Internet
- Learning Styles
- Instill a Love of Learning
- Bullying
- Time Management
- School Stress
- Parenting Program
- Parenting Program Brochure
- DC Grand Parents Brochure
- Updated the Parenting Resource Guide

Program activities were conducted in different settings using different methodologies; notably as: workshops, at health fairs, at schools, senior centers, recreation centers, after care programs, public health clinics and places of worship.

2. Brief description of the target audience

Seniors, adults, youth and children residing in the District of Columbia.

V(E). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons (contacts) reached through direct and indirect contact methods

| | Direct Contacts Adults | Indirect Contacts Adults | Direct Contacts Youth | Indirect Contacts Youth |
|------|---------------------------|-----------------------------|--------------------------|----------------------------|
| Year | Target | Target | Target | Target |
| Plan | 700 | 0 | 0 | 0 |
| 2007 | 1065 | 0 | 0 | 0 |

2. Number of Patent Applications Submitted (Standard Research Output)

Patent Applications Submitted

| | |
|--------|--------|
| Year | Target |
| Plan: | 0 |
| 2007 : | 0 |

Patents listed

3. Publications (Standard General Output Measure)**Number of Peer Reviewed Publications**

| | Extension | Research | Total |
|-------------|------------------|-----------------|--------------|
| Plan | | | |
| 2007 | 0 | 0 | 0 |

V(F). State Defined Outputs**Output Target****Output #1****Output Measure**

- Curriculum developed for various workshops, seminars, support groups, fact sheets, and newsletters.

| Year | Target | Actual |
|-------------|---------------|---------------|
| 2007 | 650 | 1065 |

V(G). State Defined Outcomes**V. State Defined Outcomes Table of Content**

| O No. | Outcome Name |
|-------|--|
| 1 | Number of participants in workshops. |
| 2 | Number of support groups formed. |
| 3 | Percentage Increase in the number of parenting support groups. |

Outcome #1**1. Outcome Measures**

Number of participants in workshops.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 2000 | 1065 |

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

Parenting can be the most challenging and rewarding role one will ever accept. However, there is no manual or one correct way to teach how to be a parent.

In the US there are 2.4 million grandparents who report they are responsible for the basic needs of their grandchildren. These individuals are in need of easily accessible information such as health insurance, financial assistance, respite care, etc. to help assist them in the important role of parenting again.

What has been done

Through our program we give parents researched based information to help assist them in the role of being an effective parent. Through the workshops parents and grandparents are given resources and tools to help assist and give current information about young children and their development, strategies and techniques to promote healthy self-esteem and self control, and resources to help them be successful, such as community agencies and other parent or grandparents doing the same thing.

Results

Parents and relatives have been exposed to new ways to express their parenting styles. They have also been able to network with other parents/ grandparents in the community that are experiencing similar parenting challenges. Most of all the participants are encouraged after participating in the workshops and express interest in other topics.

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|---------|---|
| 802 | Human Development and Family Well-Being |

Outcome #2**1. Outcome Measures**

Number of support groups formed.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 25 | 0 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Parents with specific concerns that need to be addressed cause specific programs to be developed. Also The Department of Corrections is interested in having participants in the early release program participate in support groups to allow them to talk about issues related to their children.

The military is interested in having the children of deployed parents participate in a support groups. We are moving forward in addressing these needs at this time.

What has been done

The parent extension agent educator was recently hired and is in the process of establishing support groups. She has started with grandparents and relatives raising relative children.

Results**4. Associated Knowledge Areas**

| KA Code | Knowledge Area |
|---------|---|
| 802 | Human Development and Family Well-Being |

Outcome #3**1. Outcome Measures**

Percentage Increase in the number of parenting support groups.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Condition Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 40 | 0 |

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

We have identified parent groups that have some concerns that may lead to support groups. We are working to form groups at this point.

What has been done

We have made partnerships with the University of the District of Columbia Counseling Center and secured support from staff that will act as group facilitators.

Results

Groups are currently forming.

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|---------|---|
| 802 | Human Development and Family Well-Being |

V(H). Planned Program (External Factors)**External factors which affected outcomes**

- Appropriations changes
- Government Regulations

Brief Explanation

Lack of appropriated funding from the District of Columbia limited the ability to build capacity of the parenting program.

V(l). Planned Program (Evaluation Studies and Data Collection)

1. Evaluation Studies Planned

- Before-After (before and after program)
- During (during program)

Evaluation Results

N/A

Key Items of Evaluation

N/A

Program #23**V(A). Planned Program (Summary)****1. Name of the Planned Program**

Teachers Understanding Nutrition and Agriculture (TUNA)

V(B). Program Knowledge Area(s)**1. Program Knowledge Areas and Percentage**

| KA Code | Knowledge Area | %1862 Extension | %1890 Extension | %1862 Research | %1890 Research |
|---------|---|-----------------|-----------------|----------------|----------------|
| 702 | Requirements and Function of Nutrients and Other Food Cor | 100% | | 100% | |
| | Total | 100% | | 100% | |

V(C). Planned Program (Inputs)**1. Actual amount of professional FTE/SYs expended this Program**

| Year: 2007 | Extension | | Research | |
|---------------|-----------|------|----------|------|
| | 1862 | 1890 | 1862 | 1890 |
| Plan | 0.3 | 0.0 | 0.0 | 0.0 |
| Actual | 1.1 | 0.0 | 0.0 | 0.0 |

2. Actual dollars expended in this Program (includes Carryover Funds from previous years)

| Extension | | Research | |
|---------------------|----------------|----------------|----------------|
| Smith-Lever 3b & 3c | 1890 Extension | Hatch | Evans-Allen |
| 43331 | 0 | 0 | 0 |
| 1862 Matching | 1890 Matching | 1862 Matching | 1890 Matching |
| 43331 | 0 | 0 | 0 |
| 1862 All Other | 1890 All Other | 1862 All Other | 1890 All Other |
| 0 | 0 | 0 | 0 |

V(D). Planned Program (Activity)**1. Brief description of the Activity**

- Curriculum developed for various workshops
- Fact sheets

The program provided a platform for teachers to explore the connection between nutrition, agriculture and health. Provided an opportunity for teachers to conduct hands-on nutrition and agriculture experiences. Developed skills in teachers to recognize the effects of marketing and promotion on food habits. Incorporated standards based nutrition and agri-science lessons plans into the DCPublic Schools curricula.

2. Brief description of the target audience

Teachers and students in the District of Columbia.

V(E). Planned Program (Outputs)**1. Standard output measures****Target for the number of persons (contacts) reached through direct and indirect contact methods**

| | Direct Contacts Adults | Indirect Contacts Adults | Direct Contacts Youth | Indirect Contacts Youth |
|-------------|-----------------------------------|-------------------------------------|----------------------------------|------------------------------------|
| Year | Target | Target | Target | Target |
| Plan | 250 | 0 | 0 | 0 |
| 2007 | 530 | 0 | 0 | 0 |

2. Number of Patent Applications Submitted (Standard Research Output)**Patent Applications Submitted****Year Target****Plan:** 0

2007 : 0

Patents listed**3. Publications (Standard General Output Measure)****Number of Peer Reviewed Publications**

| | Extension | Research | Total |
|-------------|------------------|-----------------|--------------|
| Plan | | | |
| 2007 | 0 | 0 | 0 |

V(F). State Defined Outputs**Output Target****Output #1****Output Measure**

- Curriculum developed for various workshops, fact sheets.

| Year | Target | Actual |
|-------------|---------------|---------------|
| 2007 | 200 | 0 |

V(G). State Defined Outcomes**V. State Defined Outcomes Table of Content**

| O No. | Outcome Name |
|-------|--|
| 1 | Percentage of decline in childhood obesity rates. (Change in schools policies to incorporate nutrition and agriculture in the curriculums in District of Columbia schools) |
| 2 | Number of participants who improved eating habits. |
| 3 | Number of participants that decrease poor eating habits. |

Outcome #1**1. Outcome Measures**

Percentage of decline in childhood obesity rates. (Change in schools policies to incorporate nutrition and agriculture in the curriculums in District of Columbia schools)

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Condition Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 10 | 0 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|---------|--|
| 702 | Requirements and Function of Nutrients and Other Food Components |

Outcome #2**1. Outcome Measures**

Number of participants who improved eating habits.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 200 | 0 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|---------|--|
| 702 | Requirements and Function of Nutrients and Other Food Components |

Outcome #3

1. Outcome Measures

Number of participants that decrease poor eating habits.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 175 | 0 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|---------|--|
| 702 | Requirements and Function of Nutrients and Other Food Components |

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Appropriations changes
- Government Regulations

Brief Explanation

V(I). Planned Program (Evaluation Studies and Data Collection)

1. Evaluation Studies Planned

- Before-After (before and after program)
- During (during program)

Evaluation Results

Key Items of Evaluation

Program #24**V(A). Planned Program (Summary)****1. Name of the Planned Program**

Food Stamp Education Nutrition Program

V(B). Program Knowledge Area(s)**1. Program Knowledge Areas and Percentage**

| KA Code | Knowledge Area | %1862 Extension | %1890 Extension | %1862 Research | %1890 Research |
|---------|---|-----------------|-----------------|----------------|----------------|
| 701 | Nutrient Composition of Food | 20% | | 20% | |
| 702 | Requirements and Function of Nutrients and Other Food Cor | 20% | | 20% | |
| 703 | Nutrition Education and Behavior | 20% | | 20% | |
| 712 | Protect Food from Contamination by Pathogenic Microorgani | 20% | | 20% | |
| 724 | Healthy Lifestyle | 20% | | 20% | |
| | Total | 100% | | 100% | |

V(C). Planned Program (Inputs)**1. Actual amount of professional FTE/SYs expended this Program**

| Year: 2007 | Extension | | Research | |
|---------------|-----------|------|----------|------|
| | 1862 | 1890 | 1862 | 1890 |
| Plan | 5.8 | 0.0 | 0.0 | 0.0 |
| Actual | 19.1 | 0.0 | 0.0 | 0.0 |

2. Actual dollars expended in this Program (includes Carryover Funds from previous years)

| Extension | | Research | |
|---------------------|----------------|----------------|----------------|
| Smith-Lever 3b & 3c | 1890 Extension | Hatch | Evans-Allen |
| 106422 | 0 | 0 | 0 |
| 1862 Matching | 1890 Matching | 1862 Matching | 1890 Matching |
| 106422 | 0 | 0 | 0 |
| 1862 All Other | 1890 All Other | 1862 All Other | 1890 All Other |
| 113865 | 0 | 0 | 0 |

V(D). Planned Program (Activity)**1. Brief description of the Activity**

- Train the Trainer Educational Workshops > 2 hours a week by teacher volunteers
- FFNews
- Creative Curriculum
- Color Me Healthy
- Tickle Your Appetite
- 5 A Day
- DCPS Nutrition Curriculums
- 48 -Food Safety & Dietary Quality Lessons Developed

The Food Stamp Nutrition Education Program helped recipients make healthy food choices for meals purchased with food stamp dollars and WIC vouchers consistent with the most recent dietary advice as reflected in the Dietary Guidelines for Americans and the Food Guide Pyramid. Other related objectives include assessments, studies, and education on the provision for adequate food security, food safety, shopping behavior, food resource management, diabetes, hypertension, obesity, dietary quality, system and environmental change, and dissemination of science-based, behaviorally focused nutrition and lifestyle messages to a large diverse population, using state-of-the-art techniques such as social marketing. The seven (7) Lead Agencies were: Edward C. Mazique Parent and Child Care Center; District of Columbia Public Schools Head Start Program; District of Columbia Parks and Recreation Child Development Centers; District of Columbia Parks and Recreation Before and After School Programs, Young's Memorial Child Development Centers, Shiloh Baptist Church Child Development Center; and Home Away From Home Child Development Center.

The UDC Food Stamp Nutrition Education (Family Nutrition Program) provided nutrition and food safety education in 7 of the 8 wards. A total of 111,194 food stamp nutrition education direct contacts were generated with individuals and 8,969 indirect contracts with households for fiscal year 2007. The indirect contacts were on eight (8) of the 48 lessons taught during the Fiscal Year 2007. The food stamp nutrition education contacts by wards were as follows:

| Ward | Number of Contacts |
|--------|--------------------|
| Ward 1 | 6,867 |
| Ward 2 | 32,488 |
| Ward 3 | 0 |
| Ward 4 | 1,077 |
| Ward 5 | 7,993 |
| Ward 6 | 6,904 |
| Ward 7 | 2,698 |
| Ward 8 | 53, 167 |
| Total | 111,194 Contacts |

A total of 104 teachers participated in the Food Stamp Nutrition Education Program. The teachers worked in sites in the Wards as follows: 7 teachers in Ward 1; 37 in Ward 2; 2 in Ward 4; 29 in Ward 5; 7 in Ward 6; 4 in Ward 7; and 54 in Ward 8. The 109 teachers provided a dollar value of \$239, 146.00 for Fiscal year 2007 and conducted 6609 workshops at 51 sites for children 2 to 5 years of age.

The 48 lessons were as follows: The food safety lessons consist of the following topics: Basic Sanitation, Safe Kitchen Practices, Hand washing, and Utensils/Health Safety. The basic nutrition lessons include: On Old MacDonald's Farm, Place Setting and Food Groups, Popcorn Popping, Taste Testing Party, Pumpkin Characteristics, Milk & Milk Products, Cereals & Breads (Foods in the Bread Group), Fruits and Our Senses, Vegetables and Our Senses, Shape Sandwiches, African Style Slush Punch, Foods that are Red, Foods that are Green, Foods that are Orange, Foods that are White, Foods that are Yellow, Vegetable and Alphabet Soup, Chicken Noodle Soup, Types of Beans and What they Look Like, Bean Soup, Trip to the local Supermarket, Identifying favorite foods, Identifying Advertised foods in magazines and newspapers, Vegetable Salad, Meat Salad, Fruit Salad, Grilled Foods (Meat Group), Grilled Foods (Vegetables,), Baked Beans, Picnic Foods (Stuffed Celery, Stuffed Tomatoes), Devil Eggs, Fruit Cups, Fruit Cups with Yogurt, Carrots, Apples and Pears, Taste Test Different Breads, Snack Foods, Foods from Trees (Apples, Peaches, Pears), Identifying Berries (taste, touch, see and name), Circular Foods, and Playing with toy foods in the kitchen.

2. Brief description of the target audience

- Children 2-5 years old
- Pre-School/Headstart and Daycare teacher volunteers

V(E). Planned Program (Outputs)**1. Standard output measures****Target for the number of persons (contacts) reached through direct and indirect contact methods**

| | Direct Contacts Adults | Indirect Contacts Adults | Direct Contacts Youth | Indirect Contacts Youth |
|-------------|-----------------------------------|-------------------------------------|----------------------------------|------------------------------------|
| Year | Target | Target | Target | Target |
| Plan | 83 | 0 | 5000 | 0 |
| 2007 | 139 | 8969 | 111194 | 0 |

2. Number of Patent Applications Submitted (Standard Research Output)**Patent Applications Submitted****Year Target****Plan:** 0

2007 : 0

Patents listed**3. Publications (Standard General Output Measure)****Number of Peer Reviewed Publications**

| | Extension | Research | Total |
|-------------|------------------|-----------------|--------------|
| Plan | | | |
| 2007 | 0 | 0 | 0 |

V(F). State Defined Outputs**Output Target****Output #1****Output Measure**

- Train the Trainer Educational Workshops > 2 hours a week by teacher volunteers;

| Year | Target | Actual |
|-------------|---------------|---------------|
| 2007 | 4000 | 6609 |

V(G). State Defined Outcomes**V. State Defined Outcomes Table of Content**

| O No. | Outcome Name |
|-------|--|
| 1 | Number of participants who are able to make appropriate food choices from the Food Guide Pyramid and Dietary Guidelines for Americans. |
| 2 | Number of participants with increased knowledge of various fruits and vegetables. |
| 3 | Number of participants (parents) who make better food choices (fruits and vegetables). |
| 4 | Improved eating habits among the children. |

Outcome #1**1. Outcome Measures**

Number of participants who are able to make appropriate food choices from the Food Guide Pyramid and Dietary Guidelines for Americans.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 5050 | 0 |

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

Stakeholders are concerned about individuals and families being able to make healthful food choices in order to improve dietary quality and safe handling of food.

What has been done

One hundred thirty nine (139) Head Start and day care teachers were trained to teach nutrition education to children 2 to 5 years of age and provide information on nutrition to the parents and caretakers of these children.

Results

111,194 contacts were generated with children 2 to 5 years of age and their parents and caretakers. The teachers conducted 6,609 workshops for children at a dollar value added to the program of \$239,146.00.

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|---------|----------------------------------|
| 703 | Nutrition Education and Behavior |
| 724 | Healthy Lifestyle |

Outcome #2**1. Outcome Measures**

Number of participants with increased knowledge of various fruits and vegetables.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 5083 | 111194 |

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

Stakeholders and elective officials and the community care about the changes. As individuals and families increase their knowledge and make lifestyle changes in eating more fruits and vegetable lead to a healthier community. As people become healthier, healthcare costs decreases and productivity increases.

What has been done

75% of the participants increased their consumption of fruit and vegetables from 0-1 per day to 2 or more. This change in diet may assist in the reduction of leading causes of diseases in the community.

Results**4. Associated Knowledge Areas**

| KA Code | Knowledge Area |
|---------|----------------------------------|
| 703 | Nutrition Education and Behavior |
| 724 | Healthy Lifestyle |

Outcome #3**1. Outcome Measures**

Number of participants (parents) who make better food choices (fruits and vegetables).

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 5083 | 6069 |

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

The individuals, families and community.

What has been done

Teachers reported a change in interest in certain kinds of food by the children. The children are eat more of the fruits and vegetables.

Results**4. Associated Knowledge Areas**

| KA Code | Knowledge Area |
|---------|----------------------------------|
| 703 | Nutrition Education and Behavior |
| 724 | Healthy Lifestyle |

Outcome #4**1. Outcome Measures**

Improved eating habits among the children.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | {No Data Entered} | 0 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Community, stakeholders, and elected officials.

What has been done

Continued nutrition education workshops.

Results

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|---------|----------------------------------|
| 703 | Nutrition Education and Behavior |

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Economy
- Appropriations changes
- Public Policy changes
- Competing Public priorities
- Populations changes (immigration,new cultural groupings,etc.)
- Other (Lack of public transportation in certain communities.)

Brief Explanation

V(I). Planned Program (Evaluation Studies and Data Collection)

1. Evaluation Studies Planned

- Before-After (before and after program)
- During (during program)

Evaluation Results

Data have not been analyzed at this point in the program.

Key Items of Evaluation

Retention of knowledge and behavior changes.

Program #25**V(A). Planned Program (Summary)****1. Name of the Planned Program**

Obesity Research Projects

V(B). Program Knowledge Area(s)**1. Program Knowledge Areas and Percentage**

| KA Code | Knowledge Area | %1862 Extension | %1890 Extension | %1862 Research | %1890 Research |
|---------|---|-----------------|-----------------|----------------|----------------|
| 701 | Nutrient Composition of Food | 25% | | 25% | |
| 702 | Requirements and Function of Nutrients and Other Food Cor | 25% | | 25% | |
| 703 | Nutrition Education and Behavior | 25% | | 25% | |
| 724 | Healthy Lifestyle | 25% | | 25% | |
| | Total | 100% | | 100% | |

V(C). Planned Program (Inputs)**1. Actual amount of professional FTE/SYs expended this Program**

| Year: 2007 | Extension | | Research | |
|---------------|-----------|------|----------|------|
| | 1862 | 1890 | 1862 | 1890 |
| Plan | 1.5 | 0.0 | 0.0 | 0.0 |
| Actual | 1.5 | 0.0 | 0.0 | 0.0 |

2. Actual dollars expended in this Program (includes Carryover Funds from previous years)

| Extension | | Research | |
|---------------------|----------------|----------------|----------------|
| Smith-Lever 3b & 3c | 1890 Extension | Hatch | Evans-Allen |
| 32072 | 0 | 0 | 0 |
| 1862 Matching | 1890 Matching | 1862 Matching | 1890 Matching |
| 32072 | 0 | 0 | 0 |
| 1862 All Other | 1890 All Other | 1862 All Other | 1890 All Other |
| 100000 | 0 | 0 | 0 |

V(D). Planned Program (Activity)**1. Brief description of the Activity**

- IRB Committee
- Mobilizing community
- Development of Instruments
- Training on Instruments
- Recruitment of project participants
- Selected interventions
- Review of data Data analysis
- Report development

Obesity seed grant projects were conducted. the priority Focus Areas of the obesity projects were:as follows:

1. Behavioral and environmental factors that influence obesity; and 2. Effective strategies and intervention for preventing obesity. SEED Grant Awards were as follows: 1) Implementation and Testing of an Intervention to Reduce Overweight in Elementary School Children, aged 8 to 10 years, Howard University Department of Nutritional Sciences; College of Pharmacy, Nursing and Allied Health Sciences, PRINCIPAL INVESTIGATOR: Allan Johnson, PhD, LN. Abstract #1: An intervention to reduce the prevalence of overweight in children aged 8-10 years will be implemented and evaluated. The intervention will be conducted among students in grades 3-4 in two Washington, DC elementary schools and will involve their parents/guardians. A randomized controlled design will be utilized. Students and parents/guardians in the intervention school will be exposed to the following four components of the intervention: nutrition education of children and their parents/guardians using Team Nutrition materials; modification of school meals and a la carte menu items to ensure compliance with the Dietary Guidelines for Americans 2005; education to reduce sedentary behaviors (TV watching, and use of video games and computers) using the SMART curriculum; and physical activity using the Physical Best program. Students and parents/guardians in the control school will not be exposed to the intervention.

2) "Risk Markers for Obesity in African American Adolescents", Howard University College of Medicine, Department of Physiology and Biophysics, PRINCIPAL INVESTIGATOR: Richard Millis, PhD Abstract #2: The African-American predilection for obesity is a complex problem thought to be associated with abnormal autonomic responsiveness to environmental stressors and ingestion of food. Paced breathing elicits high heart rate variability and stress elicits low heart rate variability. Low heart rate variability after eating is a risk factor for obesity because of its association with a limitation on sympathetic modulation of postprandial insulin secretion, fat utilization, adipokinesis and fat utilization. A sub-population of healthy normotensive adolescent African-Americans (18-19 year old university students), presumed to be at high risk for developing obesity in the future, may exhibit low heart rate variability with high sympathetic tone and low fat utilization after eating. Measures of heart rate variability after eating isocaloric high carbohydrate, high fat and high protein meals on different days. Subjects will be into groups exhibiting low and normal postprandial fat utilization by indirect calorimetry measuring the respiratory quotient, a noninvasive index of nutrient (carbohydrate vs. fat) utilization, before and after eating. The remaining subjects will be classified as a normal "broadband" group. measure total body fat content and regional body fat distribution and to correlate low heart rate variability with a limitation of postprandial increase in sympathetic tone and respiratory quotient.

3) Childhood obesity: The effect of a nutrition intervention program, Color Your Pyramid on nutrition knowledge, eating behavior, physical activity and nutrition status on Washington, D.C. schools, George Mason University, Department of Health and Human Services, PRINCIPAL INVESTIGATOR: Jean Moore, PhD, RN; Abstract #3: The purpose of this project is to develop, implement, and evaluate a culturally relative nutrition intervention program, Color Your Pyramid. Color Your Pyramid is an educational program created by the researchers and framed by the revised USDA Food Guide Pyramid and the online component www.MyPyramid.gov. The intervention will be designed to reduce and prevent childhood obesity in District of Columbia schools. Specifically, the intervention will improve nutrition knowledge, dietary behavior, physical activity, and nutrition status. The approach to implementing the nutrition intervention program will be to prepare individuals enrolled in masters programs in nursing at George Mason University to assess, plan, implement and evaluate the program.

4) "Lightening the Burden of Childhood-Onset Overweight and Obesity: An Evaluation of the Capital Area Food Bank's Health Promotion and Nutrition Education Program to Prevent Overweight and Obesity Among Low-Income Latino and African-American Children and their Families", George Washington University, Department of Clinical Leadership and Management School of Medicine and Health Sciences, PRINCIPAL INVESTIGATOR: Jessica Scheer, PhD; Abstract #4: The proposed evaluation study of the well-established nutrition education programs for low-income families that have been sponsored by the Capital Area Food Bank ("Food Bank") since 2000 will address the above-mentioned gaps in the literature. The Principal Investigator and two graduate health professional students will track the rates and process of weight loss and adherence to recommended behavioral changes among 45 African-American and Latina program participants and their overweight or obese children at the end of the 6 week set of Saturday morning sessions and at intervals of 1, 3 and 6 month post-health promotion intervention. While these nutrition education programs have been operative since 2000, they have not yet been evaluated for longer-term outcomes. Specifically, the similarities and differences between successful and unsuccessful participants will be discovered.

Results and findings of these projects will be reporting on during the next reporting period.

2. Brief description of the target audience

- Over-weight and Obesity individuals
- Non-Overweight and Obesity individuals from the same environment
- Parents of participants

V(E). Planned Program (Outputs)**1. Standard output measures****Target for the number of persons (contacts) reached through direct and indirect contact methods**

| | Direct Contacts Adults | Indirect Contacts Adults | Direct Contacts Youth | Indirect Contacts Youth |
|-------------|-----------------------------------|-------------------------------------|----------------------------------|------------------------------------|
| Year | Target | Target | Target | Target |
| Plan | 400 | 0 | 400 | 0 |
| 2007 | 150 | 0 | 0 | 0 |

2. Number of Patent Applications Submitted (Standard Research Output)**Patent Applications Submitted****Year Target****Plan:** 0

2007 : 0

Patents listed**3. Publications (Standard General Output Measure)****Number of Peer Reviewed Publications**

| | Extension | Research | Total |
|-------------|------------------|-----------------|--------------|
| Plan | | | |
| 2007 | 0 | 0 | 0 |

V(F). State Defined Outputs**Output Target****Output #1****Output Measure**

- IRB Committee

| Year | Target | Actual |
|-------------|---------------|---------------|
| 2007 | 400 | 0 |

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

| O No. | Outcome Name |
|-------|--|
| 1 | Percentage of decrease in the incidences of obesity in the District of Columbia. |
| 2 | Number of participants from targeted group. |
| 3 | Number of participants gaining awareness, knowledge and skills. |

Outcome #1**1. Outcome Measures**

Percentage of decrease in the incidences of obesity in the District of Columbia.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Condition Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 20 | 0 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|---------|--|
| 702 | Requirements and Function of Nutrients and Other Food Components |
| 703 | Nutrition Education and Behavior |
| 724 | Healthy Lifestyle |
| 701 | Nutrient Composition of Food |

Outcome #2**1. Outcome Measures**

Number of participants from targeted group.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 4000 | 0 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results**4. Associated Knowledge Areas**

| KA Code | Knowledge Area |
|----------------|--|
| 701 | Nutrient Composition of Food |
| 702 | Requirements and Function of Nutrients and Other Food Components |
| 724 | Healthy Lifestyle |
| 703 | Nutrition Education and Behavior |

Outcome #3**1. Outcome Measures**

Number of participants gaining awareness, knowledge and skills.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|-------------|----------------------------|---------------|
| 2007 | 400 | 0 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|----------------|--|
| 701 | Nutrient Composition of Food |
| 703 | Nutrition Education and Behavior |
| 702 | Requirements and Function of Nutrients and Other Food Components |
| 724 | Healthy Lifestyle |

V(H). Planned Program (External Factors)**External factors which affected outcomes**

- Appropriations changes
- Government Regulations

Brief Explanation

V(I). Planned Program (Evaluation Studies and Data Collection)**1. Evaluation Studies Planned**

- Comparisons between program participants (individuals,group,organizations) and non-participants
- Comparisons between different groups of individuals or program participants experiencing different levels of program intensity.
- Comparison between locales where the program operates and sites without program intervention

Evaluation Results

Key Items of Evaluation

Program #26**V(A). Planned Program (Summary)****1. Name of the Planned Program**

Home Maintenance and Repair

V(B). Program Knowledge Area(s)**1. Program Knowledge Areas and Percentage**

| KA Code | Knowledge Area | %1862 Extension | %1890 Extension | %1862 Research | %1890 Research |
|---------|--|-----------------|-----------------|----------------|----------------|
| 804 | Human Environmental Issues Concerning Apparel, Textiles, : | 100% | | 100% | |
| | Total | 100% | | 100% | |

V(C). Planned Program (Inputs)**1. Actual amount of professional FTE/SYs expended this Program**

| Year: 2007 | Extension | | Research | |
|---------------|-----------|------|----------|------|
| | 1862 | 1890 | 1862 | 1890 |
| Plan | 1.5 | 0.0 | 0.0 | 0.0 |
| Actual | 2.6 | 0.0 | 0.0 | 0.0 |

2. Actual dollars expended in this Program (includes Carryover Funds from previous years)

| Extension | | Research | |
|---------------------|----------------|----------------|----------------|
| Smith-Lever 3b & 3c | 1890 Extension | Hatch | Evans-Allen |
| 82804 | 0 | 0 | 0 |
| 1862 Matching | 1890 Matching | 1862 Matching | 1890 Matching |
| 82804 | 0 | 0 | 0 |
| 1862 All Other | 1890 All Other | 1862 All Other | 1890 All Other |
| 0 | 0 | 0 | 0 |

V(D). Planned Program (Activity)**1. Brief description of the Activity**

- Newsletters
- Fact sheets
- Hands-on workshops to District residents so they can perform basic/advance repairs in and around their home

2. Brief description of the target audience

The targeted audience includes all residents of the District of Columbia, First-time homeowners, retired and non-retired homeowners, senior citizens and low-income homeowners. Special efforts will be placed on the undeserved population in the District.

V(E). Planned Program (Outputs)**1. Standard output measures****Target for the number of persons (contacts) reached through direct and indirect contact methods**

| | Direct Contacts Adults | Indirect Contacts Adults | Direct Contacts Youth | Indirect Contacts Youth |
|-------------|-----------------------------------|-------------------------------------|----------------------------------|------------------------------------|
| Year | Target | Target | Target | Target |
| Plan | 500 | 0 | 0 | 0 |
| 2007 | 721 | 3329 | 0 | 0 |

2. Number of Patent Applications Submitted (Standard Research Output)**Patent Applications Submitted**

Year Target
Plan: 0
 2007 : 0

Patents listed**3. Publications (Standard General Output Measure)****Number of Peer Reviewed Publications**

| | Extension | Research | Total |
|-------------|------------------|-----------------|--------------|
| Plan | | | |
| 2007 | 0 | 0 | 0 |

V(F). State Defined Outputs**Output Target****Output #1****Output Measure**

- Newsletters, fact sheets, and hands-on workshops to District residents so they can perform basic/advance repairs in and around

| Year | Target | Actual |
|-------------|---------------|---------------|
| 2007 | 350 | 4050 |

V(G). State Defined Outcomes**V. State Defined Outcomes Table of Content**

| O No. | Outcome Name |
|-------|---|
| 1 | Number of participants able to make repairs as well as communicate with contractors in a professional manner. |
| 2 | Number of District residents made aware of the programs offered by the Housing and Environment Program. |
| 3 | Number of District residents participating in workshops offered by the HEP who start to reduce the cost of repairs to their home. |

Outcome #1**1. Outcome Measures**

Number of participants able to make repairs as well as communicate with contractors in a professional manner.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Condition Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 250 | 721 |

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

The District of Columbia Housing Finance Agency(HFA) was established in 1979 to stimulate and expand homeownership opportunities to District residents. HFA work closely and cooperatively with housing partners to create attractive, stable and vibrant neighborhoods. From 1979 to 2006 HFA has produced approximately 8422 affordable units. The National Association of Home Builders estimates that there are more than 3000 components used in constructing a house. To most homeowners maintaining these components are bewildering, bothersome, and costly. A National Home Study showed that more than 50% of home projects and repairs can be done by homeowner if they have the know-how. Understanding key aspects of various components in the home will enable District homeowners avoid costly repairs.

What has been done

In FY 2007 the CES Housing Environment Program in collaboration with DC Housing Finance Agency, Wheeler Creek Housing Development, Kennedy Recreation Center, Turkey Thicket Community Center, Fort Stevens Recreation Center, King Greenleaf Community Center, Fort Davis Recreation Center introduced the Basic/Advance Home Maintenance program to 4050 District residents. Housing and Environment Program staff developed and distributed brochures, fact sheets and fliers to District community.

Results

The Housing and Environment Program conducted 150 Basic Home Maintenance workshops with 721 District residents participating. If participants apply skills learned in workshops they will save approximately \$275.00 per household for a total savings of \$198,275.00 The Advance Home Maintenance Program conducted 16 workshops with 27 District residents participating. When District residents apply skills learned they will save approximately \$425.00 per household for a total savings of \$ 11,475.00

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|---------|--|
| 804 | Human Environmental Issues Concerning Apparel, Textiles, and Residential and Commercial Structures |

Outcome #2**1. Outcome Measures**

Number of District residents made aware of the programs offered by the Housing and Environment Program.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 500 | 4050 |

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

The District of Columbia Housing Finance Agency(HFA) was established in 1979 to stimulate and expand homeownership opportunities to District residents. HFA work closely and cooperatively with housing partners to create attractive, stable and vibrant neighborhoods. From 1979 to 2006 HFA has produced approximately 8422 affordable units. The National Association of Home Builders estimates that there are more than 3000 components are used in constructing a house. To most homeowners maintaining these components are bewildering, bothersome, and costly. A National Home Study showed that more than 50% of home projects and repairs can be done by homeowner if they have the know-how. Understanding key aspects of various components in the home will enable District homeowners avoid costly repairs.

What has been done

In FY 2007 the CES Housing Environment Program in collaboration with DC Housing Finance Agency, Wheeler Creek Housing Development, Kennedy Recreation Center, Turkey Thicket Community Center, Fort Stevens Recreation Center, King Greenleaf Community Center, Fort Davis Recreation Center introduced the Basic/Advance Home Maintenance program to 4050 District residents. Housing and Environment Program staff developed and distributed brochures, fact sheets and fliers to District community.

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4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|---------|--|
| 804 | Human Environmental Issues Concerning Apparel, Textiles, and Residential and Commercial Structures |

Outcome #3**1. Outcome Measures**

Number of District residents participating in workshops offered by the HEP who start to reduce the cost of repairs to their home.

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 500 | 721 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

The District of Columbia Housing Finance Agency(HFA) was established in 1979 to stimulate and expand homeownership opportunities to District residents. HFA work closely and cooperatively with housing partners to create attractive, stable and vibrant neighborhoods. From 1979 to 2006 HFA has produced approximately 8422 affordable units. The National Association of Home Builders estimates that there are more than 3000 components are used in constructing a house. To most homeowners maintaining these components are bewildering, bothersome, and costly. A National Home Study showed that more than 50% of home projects and repairs can be done by homeowner if they have the know-how. Understanding key aspects of various components in the home will enable District homeowners avoid costly repairs.

What has been done

In FY 2007 the CES Housing Environment Program in collaboration with DC Housing Finance Agency, Wheeler Creek Housing Development, Kennedy Recreation Center, Turkey Thicket Community Center, Fort Stevens Recreation Center, King Greenleaf Community Center, Fort Davis Recreation Center introduced the Basic/Advance Home Maintenance program to 4050 District residents. Housing and Environment Program staff developed and distributed brochures, fact sheets and fliers to District community.

Results

The Housing and Environment Program conducted 150 Basic Home Maintenance workshops with 721 District residents participating. If participants apply skills learned in workshops they will save approximately \$275.00 per household for a total savings of \$198,275.00 The Advance Home Maintenance Program conducted 16 workshops with 27 District residents participating. When District residents apply skills learned they will save approximately \$425.00 per household for a total savings of \$ 11,475.00

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|---------|--|
| 804 | Human Environmental Issues Concerning Apparel, Textiles, and Residential and Commercial Structures |

V(H). Planned Program (External Factors)**External factors which affected outcomes**

- Appropriations changes
- Government Regulations

Brief Explanation**V(I). Planned Program (Evaluation Studies and Data Collection)****1. Evaluation Studies Planned**

- Before-After (before and after program)
- During (during program)

Evaluation Results**Key Items of Evaluation**

Program #27**V(A). Planned Program (Summary)****1. Name of the Planned Program**

Asthma Project

V(B). Program Knowledge Area(s)**1. Program Knowledge Areas and Percentage**

| KA Code | Knowledge Area | %1862 Extension | %1890 Extension | %1862 Research | %1890 Research |
|---------|--|-----------------|-----------------|----------------|----------------|
| 721 | Insects and Other Pests Affecting Humans | 100% | | 100% | |
| | Total | 100% | | 100% | |

V(C). Planned Program (Inputs)**1. Actual amount of professional FTE/SYs expended this Program**

| Year: 2007 | Extension | | Research | |
|---------------|-----------|------|----------|------|
| | 1862 | 1890 | 1862 | 1890 |
| Plan | 1.0 | 0.0 | 0.0 | 0.0 |
| Actual | 1.1 | 0.0 | 0.0 | 0.0 |

2. Actual dollars expended in this Program (includes Carryover Funds from previous years)

| Extension | | Research | |
|---------------------|----------------|----------------|----------------|
| Smith-Lever 3b & 3c | 1890 Extension | Hatch | Evans-Allen |
| 46258 | 0 | 0 | 0 |
| 1862 Matching | 1890 Matching | 1862 Matching | 1890 Matching |
| 46258 | 0 | 0 | 0 |
| 1862 All Other | 1890 All Other | 1862 All Other | 1890 All Other |
| 7712 | 0 | 0 | 0 |

V(D). Planned Program (Activity)**1. Brief description of the Activity**

- Educate District residents on how to improve the quality of indoor air
- Newsletters
- Fact sheets
- Home audits (Districts residents)

2. Brief description of the target audience

The target population for the CES Asthma Project is children ages 3 thru 12 and their families who reside in area of the District where asthma percentage is high.

V(E). Planned Program (Outputs)**1. Standard output measures****Target for the number of persons (contacts) reached through direct and indirect contact methods**

| | Direct Contacts Adults | Indirect Contacts Adults | Direct Contacts Youth | Indirect Contacts Youth |
|-------------|-----------------------------------|-------------------------------------|----------------------------------|------------------------------------|
| Year | Target | Target | Target | Target |
| Plan | 250 | 0 | 0 | 0 |
| 2007 | 200 | 300 | 0 | 0 |

2. Number of Patent Applications Submitted (Standard Research Output)**Patent Applications Submitted**

Year Target
Plan: 0
 2007 : 0

Patents listed**3. Publications (Standard General Output Measure)****Number of Peer Reviewed Publications**

| | Extension | Research | Total |
|-------------|------------------|-----------------|--------------|
| Plan | | | |
| 2007 | 0 | 0 | 0 |

V(F). State Defined Outputs**Output Target****Output #1****Output Measure**

- Educate District residents on how to improve the quality of indoor air; Newsletters; Fact Sheets, and home audits will be provided

| Year | Target | Actual |
|-------------|---------------|---------------|
| 2007 | 100 | 2000 |

V(G). State Defined Outcomes**V. State Defined Outcomes Table of Content**

| O No. | Outcome Name |
|-------|--|
| 1 | Number of residents who are aware of the CES Asthma Project. |
| 2 | Number of residents participating in CES Asthma Project activities in their homes. |
| 3 | Number of residents who are able to identify issues in their home related to asthma as a result of the CES Asthma Project. |

Outcome #1**1. Outcome Measures**

Number of residents who are aware of the CES Asthma Project.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 250 | 500 |

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

Often undiagnosed and under treated asthma is the number one chronic illness in children and the leading cause of school absence and hospitalization. An estimated 10,000 children under the age of 18 and 22,000 adults in the District of Columbia suffer from asthma according to the Allergy and Asthma Foundation of America, costing the District more than an estimated \$14 million in 1998 in direct medical expenditures for hospitalizations, doctors visits, medication, and related expenses. The lack of community awareness contributes to the disproportionate impact on African American and Hispanic children in the District.

What has been done

The CES Housing and Environment Program, Natural Resource and Environment Program and Family and Consumer Science Program collaborated to form the CES Asthma Project. The CES Asthma Project then collaborated with DC Asthma Coalition, DC Health Department, USDA/CSREES Healthy Home Project helped District residents in identify asthma triggers in their home. CES Asthma Project and collaborators provided 500 District residents with information on asthma triggers. This was accomplished with fact sheets, brochures, home visits, presentations, and workshops.

Results

In response to information distributed about CES Asthma Project East of River Community Development Organization, Rock Creek Charter School, DC Housing Finance Agency, Metropolitan Day Care Center, MM Washington High School PTA was given workshops at their facility on Asthma Triggers.

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|---------|--|
| 721 | Insects and Other Pests Affecting Humans |

Outcome #2**1. Outcome Measures**

Number of residents participating in CES Asthma Project activities in their homes.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 100 | 50 |

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

Often undiagnosed and under treated asthma is the number one chronic illness in children and the leading cause of school absence and hospitalization. An estimated 10,000 children under the age of 18 and 22,000 adults in the District of Columbia suffer from asthma according to the Allergy and Asthma Foundation of America, costing the District more than an estimated \$14 million in 1998 in direct medical expenditures for hospitalizations, doctors visits, medication, and related expenses. The lack of community awareness contributes to the disproportionate impact on African American and Hispanic children in the District.

What has been done

The CES Housing and Environment Program, Natural Resource and Environment Program and Family and Consumer Science Program collaborated to form the CES Asthma Project. The CES Asthma Project then collaborated with DC Asthma Coalition, DC Health Department, USDA/CSREES Healthy Home Project helped District residents identify asthma triggers in their home. CES Asthma Project and collaborators provided 500 District residents with information on asthma triggers. This was accomplished with fact sheets, brochures, home visits, presentations, and workshops.

Results

In response to information distributed about CES Asthma Project East of River Community Development Organization, Rock Creek Charter School, DC Housing Finance Agency, Metropolitan Day Care Center, MM Washington High School PTA was given workshops at their facility on Asthma Triggers.

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|---------|--|
| 721 | Insects and Other Pests Affecting Humans |

Outcome #3**1. Outcome Measures**

Number of residents who are able to identify issues in their home related to asthma as a result of the CES Asthma Project.

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Condition Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 225 | 225 |

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

Often undiagnosed and under treated asthma is the number one chronic illness in children and the leading cause of school absence and hospitalization. An estimated 10,000 children under the age of 18 and 22,000 adults in the District of Columbia suffer from asthma according to the Allergy and Asthma Foundation of America, costing the District more than an estimated \$14 million in 1998 in direct medical expenditures for hospitalizations, doctors visits, medication, and related expenses. The lack of community awareness contributes to the disproportionate impact on African American and Hispanic children in the District.

What has been done

The CES Housing and Environment Program, Natural Resource and Environment Program and Family and Consumer Science Program collaborated to form the CES Asthma Project. The CES Asthma Project then collaborated with DC Asthma Coalition, DC Health Department, USDA/CSREES Healthy Home Project helped District residents identify asthma triggers in their home. CES Asthma Project and collaborators provided 500 District residents with information on asthma triggers.. This was accomplished with fact sheets, brochures, home visits, presentations, and workshops.

Results

In response to information distributed about CES Asthma Project East of River Community Development Organization, Rock Creek Charter School, DC Housing Finance Agency, Metropolitan Day Care Center, MM Washington High School PTA was given workshops at their facility on Asthma Triggers.

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|----------------|--|
| 721 | Insects and Other Pests Affecting Humans |

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Appropriations changes
- Government Regulations

Brief Explanation

Lack of Lab space or housing unit to demonstrate before and after impact.

V(I). Planned Program (Evaluation Studies and Data Collection)

1. Evaluation Studies Planned

- Before-After (before and after program)

Evaluation Results

Workshop survey indicated that participants were satisfied with presentations and demonstrations.

Key Items of Evaluation

Program #28**V(A). Planned Program (Summary)****1. Name of the Planned Program**

Center for Cooperatives & C.H. Kirkman, Jr. Resource Library for Cooperatives

V(B). Program Knowledge Area(s)**1. Program Knowledge Areas and Percentage**

| KA Code | Knowledge Area | %1862 Extension | %1890 Extension | %1862 Research | %1890 Research |
|---------|---|-----------------|-----------------|----------------|----------------|
| 608 | Community Resource Planning and Development | 100% | | 100% | |
| | Total | 100% | | 100% | |

V(C). Planned Program (Inputs)**1. Actual amount of professional FTE/SYs expended this Program**

| Year: 2007 | Extension | | Research | |
|---------------|-----------|------|----------|------|
| | 1862 | 1890 | 1862 | 1890 |
| Plan | 1.0 | 0.0 | 0.0 | 0.0 |
| Actual | 1.8 | 0.0 | 0.0 | 0.0 |

2. Actual dollars expended in this Program (includes Carryover Funds from previous years)

| Extension | | Research | |
|---------------------|----------------|----------------|----------------|
| Smith-Lever 3b & 3c | 1890 Extension | Hatch | Evans-Allen |
| 38334 | 0 | 0 | 0 |
| 1862 Matching | 1890 Matching | 1862 Matching | 1890 Matching |
| 38334 | 0 | 0 | 0 |
| 1862 All Other | 1890 All Other | 1862 All Other | 1890 All Other |
| 1172 | 0 | 0 | 0 |

V(D). Planned Program (Activity)**1. Brief description of the Activity**

- Collaborate with 10 key coop agencies (through memberships)and key individuals to expand the training and services to 20,000 co-op residents, 25 neighborhood based credit Unions and other coops.
- Purchase, lease, borrow 18 coop training tapes from the National Association Housing Cooperatives and the National Cooperative Business Association and convert their formats for airing on Channel 19, publish to the 200 coops viewing dates and times.
- Make available resource material from the C.H. Kirkman, Jr. Library to 300 Coop groups.
- Train a minimum of 1,000 coop members.
- Develop a video tape series, webpage and links to provide continuous scheduled training and information on coop housing issues of Governance, Predatory Lending/Investments, Coop Principles, Roles, Rights and Responsibilities of Coop Directors, Managers and Members.
- Hold/participate in a minimum of 20 coop training sessions for 1,000 coop members and individuals in subsidized housing and maintain a resource library service to aid them.
- Develop, maintain and update mailing list, fax list and e-mail list of the coops in the District of Columbia and resource groups serving coops.
- Develop and maintain an advisory committee, that meets a minimum of twice a year, to gain stakeholders/customer input, ideas, and programs to meet their needs.
- Support advocacy groups who promote legislation to protect coops from predatory practices, conversions.
- Implement a Bi-annual awards program to recognize two DC Coops and two key individuals promoting co-ops in the District of Columbia.

2. Brief description of the target audience

Low to Moderate income individuals in the District of Columbia, with emphasis on those in coop housing, low income, subsidized housing and first time home buyers.

V(E). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons (contacts) reached through direct and indirect contact methods

| | Direct Contacts Adults | Indirect Contacts Adults | Direct Contacts Youth | Indirect Contacts Youth |
|------|---------------------------|-----------------------------|--------------------------|----------------------------|
| Year | Target | Target | Target | Target |
| Plan | 20000 | 0 | 0 | 0 |
| 2007 | 10000 | 100000 | 0 | 0 |

2. Number of Patent Applications Submitted (Standard Research Output)

Patent Applications Submitted

| | |
|--------|--------|
| Year | Target |
| Plan: | 0 |
| 2007 : | 0 |

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

| | Extension | Research | Total |
|------|-----------|----------|-------|
| Plan | | | |
| 2007 | 0 | 0 | 0 |

V(F). State Defined Outputs

Output Target

Output #1**Output Measure**

- Collaborate with 10 key coop agencies (through memberships)and key individuals to expand the training and services to 20,000

| Year | Target | Actual |
|-------------|---------------|---------------|
| 2007 | 15000 | 100000 |

V(G). State Defined Outcomes**V. State Defined Outcomes Table of Content**

| O No. | Outcome Name |
|-------|--|
| 1 | The number of individuals in coops and subsidized housing trained on the roles, rights, and responsibilities of coop members, managers, and directors. |
| 2 | Number of participates who have changed their attitudes about coop housing ownership in the District of Columbia. |
| 3 | Percentage of increase in the endowment for C. H. Kirkman, Jr. Library for Cooperatives. |

Outcome #1**1. Outcome Measures**

The number of individuals in coops and subsidized housing trained on the roles, rights, and responsibilities of coop members, managers, and directors.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 5000 | 10000 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|---------|---|
| 608 | Community Resource Planning and Development |

Outcome #2**1. Outcome Measures**

Number of participates who have changed their attitudes about coop housing ownership in the District of Columbia.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 4000 | 10000 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Both the Federal and state governments have and are utilizing cooperatives as a means of providing diversity in income, race and age in rapidly developing communities accross the country.

What has been done

CRED collaborated with 10 housing advocacy agencies and the District government, created two reports on coops and gentrification, convened four quarterly meeting with the Coalition for Housing Justice to educate and advocate for legislation to protect the rights of renters and coops.

Results

Assisted the DC city council in passing emergency legislation to protect the right of purchase for renters, low the forced conversion of coops to condos and guaranteed the all new development and renovations have 15% affordable housing in the their plan. Low the removal of 100,000 low income DC residents

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|---------|---|
| 608 | Community Resource Planning and Development |

Outcome #3**1. Outcome Measures**

Percentage of increase in the endowment for C. H. Kirkman, Jr. Library for Cooperatives.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Condition Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 50 | 0 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|---------|---|
| 608 | Community Resource Planning and Development |

V(H). Planned Program (External Factors)**External factors which affected outcomes**

- Appropriations changes
- Government Regulations

Brief Explanation

The lack of and the problem of poor government regulations and a change in government policies toward the poor removed more than 30,000 individuals from public and subsidized housing and co-ops. CRED responded to this massive policy shift by developing a 28 page document called Gentrification, Destruction or Creation of Neighborhoods and Cooperatives the Last Chance for Diversity. CRED collaborated with 10 housing advocacy groups, host 4 meetings with the Coalition for Housing Justice and assisted the development of proposed legislation that was passed by the DC City Council, which slowed the removal of another 100,000 people.

V(l). Planned Program (Evaluation Studies and Data Collection)

1. Evaluation Studies Planned

- During (during program)
- Time series (multiple points before and after program)

Evaluation Results

Only through aggressive informational research and legislative action are hard fought improvements are won for cooperatives. national organizations charge to much for their services and only make them availble to a small number of individuals.

Key Items of Evaluation

More funding for outreach and information Processing.

Program #29**V(A). Planned Program (Summary)****1. Name of the Planned Program**

Promoting Businesses

V(B). Program Knowledge Area(s)**1. Program Knowledge Areas and Percentage**

| KA Code | Knowledge Area | %1862 Extension | %1890 Extension | %1862 Research | %1890 Research |
|---------|--|-----------------|-----------------|----------------|----------------|
| 602 | Business Management, Finance, and Taxation | 100% | | 100% | |
| | Total | 100% | | 100% | |

V(C). Planned Program (Inputs)**1. Actual amount of professional FTE/SYs expended this Program**

| Year: 2007 | Extension | | Research | |
|---------------|-----------|------|----------|------|
| | 1862 | 1890 | 1862 | 1890 |
| Plan | 0.5 | 0.0 | 0.0 | 0.0 |
| Actual | 0.8 | 0.0 | 0.0 | 0.0 |

2. Actual dollars expended in this Program (includes Carryover Funds from previous years)

| Extension | | Research | |
|---------------------|----------------|----------------|----------------|
| Smith-Lever 3b & 3c | 1890 Extension | Hatch | Evans-Allen |
| 34200 | 0 | 0 | 0 |
| 1862 Matching | 1890 Matching | 1862 Matching | 1890 Matching |
| 34200 | 0 | 0 | 0 |
| 1862 All Other | 1890 All Other | 1862 All Other | 1890 All Other |
| 0 | 0 | 0 | 0 |

V(D). Planned Program (Activity)**1. Brief description of the Activity**

•Work with restore DC, the Great Streets/Main Streets, the DC Office of SBA, the UDC/SBPA SBC and 15 CDCs to provide support for the development of 1,000 new businesses by offering a minimum of 24 community business entry-level training series and a direct service incubator system.

•Participate in 30 marketing/development based activities for UDC/COES/CES throughout the city, which includes a community cooperative economic model to bring fresh organically grown and sold produce and consumer/producer coops for the expanding building industry.

•Develop and maintain an advisory committee, that meets a minimum of twice a year, to gain stakeholders/customer input, ideas, and programs to meet their needs.

•Expose the youth population to the ideas of business (80,000 school age youth).

•Develop and provide a resource center in conjunction with the UDC SBPA and a low interest/ high guaranteed loan program for \$500.00 to \$25,000 loans from a special program of the SBA.

2. Brief description of the target audience

Small, new start and home based DC businesses.

V(E). Planned Program (Outputs)**1. Standard output measures****Target for the number of persons (contacts) reached through direct and indirect contact methods**

| | Direct Contacts Adults | Indirect Contacts Adults | Direct Contacts Youth | Indirect Contacts Youth |
|-------------|-----------------------------------|-------------------------------------|----------------------------------|------------------------------------|
| Year | Target | Target | Target | Target |
| Plan | 1000 | 0 | 0 | 0 |
| 2007 | 8000 | 200000 | 1000 | 1500 |

2. Number of Patent Applications Submitted (Standard Research Output)**Patent Applications Submitted****Year Target****Plan:** 0

2007 : 0

Patents listed**3. Publications (Standard General Output Measure)****Number of Peer Reviewed Publications**

| | Extension | Research | Total |
|-------------|------------------|-----------------|--------------|
| Plan | | | |
| 2007 | 0 | 0 | 0 |

V(F). State Defined Outputs**Output Target****Output #1****Output Measure**

- Work with restore DC, the Great Streets/Main Streets, the DC Office of SBA, the UDC/SBPA SBC and 15 CDCs to provide su

| Year | Target | Actual |
|-------------|---------------|---------------|
| 2007 | 750 | 1000 |

V(G). State Defined Outcomes**V. State Defined Outcomes Table of Content**

| O No. | Outcome Name |
|-------|---|
| 1 | Number of DC residents participating in CRED program activities. |
| 2 | Number of small business participants who changed their minds about developing and maintaining a successful business in the District of Columbia. |
| 3 | Percentage of businesses participating in the program that experienced a position change. |

Outcome #1**1. Outcome Measures**

Number of DC residents participating in CRED program activities.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 1000 | 1000 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|---------|--|
| 602 | Business Management, Finance, and Taxation |

Outcome #2**1. Outcome Measures**

Number of small business participants who changed their minds about developing and maintaining a successful business in the District of Columbia.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 300 | 50 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Small businesses create 60% of all new jobs and 50% of new investments in the financial market place. Small businesses have become so important due the economic downturn, that the federal government through its massive number of program are providing a wide range of services to assist start ups, expansion and collaborative developments to replace the lost jobs and industries being hurt by the economic problem faced by the US economy.

What has been done

CRED has collaborated with the UDC School of Business, ReStore DC, and 10 Certified Community Development organizations create 2000 new businesses and improve the economic welfare of district residents with an interest in business development.

Results

CRED as a certified SBA Start Loan Counseling Agency referred 500 individuals to CAAB, Inc to join their individual development plan program (50 wanted to start a business, held hearing for 8,000 cab drivers and 200,000 residents on the meter vs. zone cab issue, travel to Portland, Ore. to study the transportation system and to propose streetcars again for DC, (Streetcars with start in September 2009, have 5,000 low income District residents income taxes prepared by 260 trained volunteers at UDC and another 100 directly prepared at UDC that returned over 5 million in refunds to District residents)

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|---------|--|
| 602 | Business Management, Finance, and Taxation |

Outcome #3

1. Outcome Measures

Percentage of businesses participating in the program that experienced a position change.

2. Associated Institution Types

• 1862 Extension

3a. Outcome Type:

Change in Condition Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 50 | 0 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|---------|--|
| 602 | Business Management, Finance, and Taxation |

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Appropriations changes
- Government Regulations

Brief Explanation

Government rules, regulations, time constraints, payment plans and paper work stop many persons from starting and/or succeeding in business.

V(l). Planned Program (Evaluation Studies and Data Collection)

1. Evaluation Studies Planned

- During (during program)

Evaluation Results

CRED found that while programs were put in place, there were too many regulations for small businesses to use the programs to advance their businesses

Key Items of Evaluation

More funding for extension services to work with SBA to advance the services to small businesses

Program #30**V(A). Planned Program (Summary)****1. Name of the Planned Program**

Financial Literacy

V(B). Program Knowledge Area(s)**1. Program Knowledge Areas and Percentage**

| KA Code | Knowledge Area | %1862 Extension | %1890 Extension | %1862 Research | %1890 Research |
|---------|---|-----------------|-----------------|----------------|----------------|
| 801 | Individual and Family Resource Management | 100% | | 100% | |
| | Total | 100% | | 100% | |

V(C). Planned Program (Inputs)**1. Actual amount of professional FTE/SYs expended this Program**

| Year: 2007 | Extension | | Research | |
|---------------|-----------|------|----------|------|
| | 1862 | 1890 | 1862 | 1890 |
| Plan | 1.0 | 0.0 | 0.0 | 0.0 |
| Actual | 1.8 | 0.0 | 0.0 | 0.0 |

2. Actual dollars expended in this Program (includes Carryover Funds from previous years)

| Extension | | Research | |
|------------------------------|---------------------|---------------------|---------------------|
| Smith-Lever 3b & 3c 61680 | 1890 Extension 0 | Hatch 0 | Evans-Allen 0 |
| 1862 Matching 61680 | 1890 Matching 0 | 1862 Matching 0 | 1890 Matching 0 |
| 1862 All Other 0 | 1890 All Other 0 | 1862 All Other 0 | 1890 All Other 0 |

V(D). Planned Program (Activity)**1. Brief description of the Activity**

- Conduct a minimum of 48 sessions for 1,000 individuals in the area of financial literacy; sessions to include but not be limited to debt management, home buyers, improving credit scores, income tax tips, education savings plans retirement planning, and budgeting.

- Collaborate/Participate in the implementation of a train the trainer program for 80 training and 600 volunteers annually and to assist in placing in 50 community agencies to prepare 7,000 sets of tax returns for disadvantaged DC residents.

- Purchase/borrow/develop information to be delivered via website, video, cable and through public venues, i.e. credit unions, libraries, schools, churches and community groups to 125,000 persons annually; which contains information in financial literacy.

- Participate in 30 community/marketing events with established organizations and groups that will put our message before 10,000 plus DC residents directly and as many as a 100,000 indirectly seeking relief related to financial concerns.

- Establish a High School Financial Planning Program for JSH and SHS Students; this program will work through the train the trainer resource development model, with teachers being trained to include financial literacy into their existing curriculums; 10 session per school of approximately 30 students per class (60 per school) for 50 schools in 5 years and 3,000 students per year.

2. Brief description of the target audience

Basic Financial Literacy Program targets 10,000 participants a year. The participants will be freshman college students, youth, ex-offenders, and other financially vulnerable individuals, i.e. the elder, low to moderate income and disabled and disadvantaged persons.

V(E). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons (contacts) reached through direct and indirect contact methods

| | Direct Contacts Adults | Indirect Contacts Adults | Direct Contacts Youth | Indirect Contacts Youth |
|------|---------------------------|-----------------------------|--------------------------|----------------------------|
| Year | Target | Target | Target | Target |
| Plan | 11600 | 0 | 0 | 0 |
| 2007 | 10000 | 100000 | 600 | 10000 |

2. Number of Patent Applications Submitted (Standard Research Output)

Patent Applications Submitted

| | |
|--------|--------|
| Year | Target |
| Plan: | 0 |
| 2007 : | 0 |

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

| | Extension | Research | Total |
|------|-----------|----------|-------|
| Plan | | | |
| 2007 | 0 | 0 | 0 |

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

| | | | |
|---|---|---------------|---------------|
| • | · Conduct a minimum of 48 sessions for 1,000 individuals in the area of financial literacy; sessions to include bu | | |
| | Year | Target | Actual |
| | 2007 | 9000 | 100000 |

V(G). State Defined Outcomes**V. State Defined Outcomes Table of Content**

| O No. | Outcome Name |
|-------|--|
| 1 | Number of participants enrolled in the CAAB Individual Savings Plan. |
| 2 | Number of participants increasing their income tax refunds through tax planning. |
| 3 | Number of DC residents purchasing homes with some form of financial assistance. |

Outcome #1**1. Outcome Measures**

Number of participants enrolled in the CAAB Individual Savings Plan.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 250 | 500 |

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

The issue of financial literacy and planning is at a crisis proportion to the extend that US Congress passed legislation requiring financial literacy in public schools and public supported institutions accross the United States. Debt is increasing being used to survive, not enjoy a higher standard of life. Debt as an outgrowth of the downturn in the economy is expanding poverty even among the middle class and is affecting even upper class individuals.

What has been done

Cred has teamed with USDA, NHFE, and FDIC to promote financial literacy in the District.

Results

CRED held 96 seminars for 1104, signed up 11 public schools and presented the idea of finacnacial literacy to over ten thousand students, produced two articles and 8 fact sheet the were put out to 100,000 persons through e-mail listing and seminars, and five thousand through tax centers. Two Hundred & eighty surveys indicated that the was extremely helpful and that receiving the information would handle their finances differently.

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|---------|---|
| 801 | Individual and Family Resource Management |

Outcome #2**1. Outcome Measures**

Number of participants increasing their income tax refunds through tax planning.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 500 | 1040 |

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

The Credit Crisis and the downturn in the economy have had a major impact on the average American citizen.

What has been done

CRED collaborated with Banking and Securities, NEFE, CAAB, CTA and FDIC to make financial literacy training, counseling and financial assistance available.

Results

Trained 260 income prep volunteers, who prepared 5,000 sets of low income tax returns and returned to DC residents over 5 million dollars in refunds, held 96 financial literacy training sessions for 1040 persons and put out 50,000 pieces of financial information through e-mail, community newsletters, and community events.

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|---------|---|
| 801 | Individual and Family Resource Management |

Outcome #3**1. Outcome Measures**

Number of DC residents purchasing homes with some form of financial assistance.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Condition Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 100 | 10000 |

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

Credit and Debt are at a crisis proportion in the US

What has been done

Congress have legislated regulations requiring the teaching of financial literacy in both high school and post secondary institutions and to disadvantaged populations receiving federal funding

Results

CRED collaborated with banking and insurance, CAAB, Inc, Community tax Aid, USDA and FDIC to offer financial literacy, tax prep, financial counseling, IDA programs

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|---------|---|
| 801 | Individual and Family Resource Management |

V(H). Planned Program (External Factors)**External factors which affected outcomes**

- Appropriations changes
- Government Regulations

Brief Explanation

A decrease in funding for both CAAB and the National Counseling Center and the negative image of credit counseling agencies have reduced the numbers of persons who could benefit from this program.

V(l). Planned Program (Evaluation Studies and Data Collection)

1. Evaluation Studies Planned

- Before-After (before and after program)

Evaluation Results

The Financial Literacy program has been well received. the surveys and the pre and post test demonstrate increased awareness of critical financial issues, as well as to provide a strategy

Key Items of Evaluation

More funding for this area in light of the crisis

Program #31**V(A). Planned Program (Summary)****1. Name of the Planned Program**

DC Food Handler Certification Program Model Project

V(B). Program Knowledge Area(s)**1. Program Knowledge Areas and Percentage**

| KA Code | Knowledge Area | %1862 Extension | %1890 Extension | %1862 Research | %1890 Research |
|---------|---|-----------------|-----------------|----------------|----------------|
| 712 | Protect Food from Contamination by Pathogenic Microorgani | 100% | | 100% | |
| | Total | 100% | | 100% | |

V(C). Planned Program (Inputs)**1. Actual amount of professional FTE/SYs expended this Program**

| Year: 2007 | Extension | | Research | |
|---------------|-----------|------|----------|------|
| | 1862 | 1890 | 1862 | 1890 |
| Plan | 0.5 | 0.0 | 0.0 | 0.0 |
| Actual | 0.9 | 0.0 | 0.0 | 0.0 |

2. Actual dollars expended in this Program (includes Carryover Funds from previous years)

| Extension | | Research | |
|------------------------------|---------------------|---------------------|---------------------|
| Smith-Lever 3b & 3c 40781 | 1890 Extension 0 | Hatch 0 | Evans-Allen 0 |
| 1862 Matching 40781 | 1890 Matching 0 | 1862 Matching 0 | 1890 Matching 0 |
| 1862 All Other 22000 | 1890 All Other 0 | 1862 All Other 0 | 1890 All Other 0 |

V(D). Planned Program (Activity)**1. Brief description of the Activity**

- 20 clock hour classroom instruction on food handler certification regulations
- DC Code Examination
- National Experior Examination or Serve Safe National Examination
- CNDH Course Outline
- Restaurant Association Videos
- Practice Examinations

This District of Columbia Food Handler Certification Program Model Proje^t assessed the food handler needs and developed a preparatory Extension education program to increase the incidence and success of low-literacy and hard-to-reach food handlers in passing the national food protection manager and limited food protection manager certification examination. This was achieved through the testing of four teaching methodologies (self study in groups, individualized CD-ROM, traditional classroom/lecture, and learning). Second-level food handlers participated in the study. All study participants received all of the training needed to sit for the national examination. Continuing Education Units (CEU) are available to project participants. During the current Fiscal Year 2007 an additional 145 individuals from 120 community based organizations and agencies were trained and certified.

For fiscal year 2007, there were 145 new project participants from 120 community-based agencies and organizations. The Mean scores were as follows:

Pretest
 Post test
 National Certification
 Examination
 DC Code Examination
 Mean
 Score
 69.50%
 77.31%
 88%
 80.68%
 Range of Scores
 29 – 90%
 55 – 97.5%
 80 – 100%
 72 – 100%

100% of the participants passed the National Certification Examination.
 100% of the participants passed the DC Code Examination.

2. Brief description of the target audience

- Non-commercial agency staff members including: Day care centers, churches, recreation centers, meals programs for elderly, group homes, non-profits
- Ongoing participation food handlers

V(E). Planned Program (Outputs)**1. Standard output measures****Target for the number of persons (contacts) reached through direct and indirect contact methods**

| | Direct Contacts Adults | Indirect Contacts Adults | Direct Contacts Youth | Indirect Contacts Youth |
|-------------|-----------------------------------|-------------------------------------|----------------------------------|------------------------------------|
| Year | Target | Target | Target | Target |
| Plan | 400 | 0 | 0 | 0 |
| 2007 | 580 | 0 | 0 | 0 |

2. Number of Patent Applications Submitted (Standard Research Output)**Patent Applications Submitted****Year Target****Plan:** 0

2007 : 0

Patents listed**3. Publications (Standard General Output Measure)****Number of Peer Reviewed Publications**

| | Extension | Research | Total |
|-------------|------------------|-----------------|--------------|
| Plan | | | |
| 2007 | 0 | 0 | 0 |

V(F). State Defined Outputs**Output Target****Output #1****Output Measure**

- 20 clock hour classroom instruction on food handler certification regulations

| Year | Target | Actual |
|-------------|---------------|---------------|
| 2007 | 300 | 580 |

V(G). State Defined Outcomes**V. State Defined Outcomes Table of Content**

| O No. | Outcome Name |
|-------|---|
| 1 | Percentage of decrease in the risk factors for food borne illness. |
| 2 | Number of Participants gaining awareness, knowledge and skills in Food Handling techniques. |
| 3 | Number of participants scoring 70% or higher on post test and national examination. |

Outcome #1**1. Outcome Measures**

Percentage of decrease in the risk factors for food borne illness.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Condition Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 100 | 149 |

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

The stakeholders, elected officials, individuals, families, and communities. Safe food handling is important to maintain a healthy person and environment.

What has been done

None of the trained food handlers reported any risk from food borne illnesses in their facilities.

Results**4. Associated Knowledge Areas**

| KA Code | Knowledge Area |
|---------|---|
| 712 | Protect Food from Contamination by Pathogenic Microorganisms, Parasites, and Naturally Occurring Toxins |

Outcome #2**1. Outcome Measures**

Number of Participants gaining awareness, knowledge and skills in Food Handling techniques.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 400 | 580 |

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

Stakeholders and employers. The passing of the food handler certification course with a 75% or greater is a requirement in the District of Columbia for food handlers in commercial, non-commercial and casual food service facilities.

What has been done

100% of the participants gained knowledge and skills in food handling techniques.

Results**4. Associated Knowledge Areas**

| KA Code | Knowledge Area |
|----------------|--|
| 712 | Protect Food from Contamination by Pathogenic Microorganisms, Parasites, and Naturally Occuring Toxi |

Outcome #3**1. Outcome Measures**

Number of participants scoring 70% or higher on post test and national examination.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|-------------|----------------------------|---------------|
| 2007 | 375 | 580 |

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

The general public who consumes meals outside the home, stakeholders,elected officials, and the community.

What has been done

100% of the participants met all measures

All of the individuals participated the 210 clock hour training program, and passed both the national exam and the DC Code exam.

Results**4. Associated Knowledge Areas**

| KA Code | Knowledge Area |
|----------------|--|
| 712 | Protect Food from Contamination by Pathogenic Microorganisms, Parasites, and Naturally Occuring Toxi |

V(H). Planned Program (External Factors)**External factors which affected outcomes**

- Economy
- Appropriations changes
- Public Policy changes
- Government Regulations
- Populations changes (immigration,new cultural groupings,etc.)

Brief Explanation

Goals were met.

V(I). Planned Program (Evaluation Studies and Data Collection)

1. Evaluation Studies Planned

- Before-After (before and after program)
- During (during program)

Evaluation Results

For fiscal year 2007, there were 145 new project participants from 120 community-based agencies and organizations.

The Mean scores were as follows:

Pretest

Post test

National Certification

Examination

DC Code Examination

Mean

Score

69.50%

77.31%

88%

80.68%

Range of Scores

29 – 90%

55 – 97.5%

80 – 100%

72 – 100%

100% of the participants passed the National Certification Examination.

100% of the participants passed the DC Code Examination.

Key Items of Evaluation

Program #32**V(A). Planned Program (Summary)****1. Name of the Planned Program**

DC Drinking Water Blind Taste Testing

V(B). Program Knowledge Area(s)**1. Program Knowledge Areas and Percentage**

| KA Code | Knowledge Area | %1862 Extension | %1890 Extension | %1862 Research | %1890 Research |
|---------|---|-----------------|-----------------|----------------|----------------|
| 111 | Conservation and Efficient Use of Water | 100% | | 100% | |
| | Total | 100% | | 100% | |

V(C). Planned Program (Inputs)**1. Actual amount of professional FTE/SYs expended this Program**

| Year: 2007 | Extension | | Research | |
|---------------|-----------|------|----------|------|
| | 1862 | 1890 | 1862 | 1890 |
| Plan | 0.5 | 0.0 | 0.0 | 0.0 |
| Actual | 0.9 | 0.0 | 0.0 | 0.0 |

2. Actual dollars expended in this Program (includes Carryover Funds from previous years)

| Extension | | Research | |
|------------------------------|---------------------|---------------------|---------------------|
| Smith-Lever 3b & 3c 39510 | 1890 Extension 0 | Hatch 0 | Evans-Allen 0 |
| 1862 Matching 39510 | 1890 Matching 0 | 1862 Matching 0 | 1890 Matching 0 |
| 1862 All Other 0 | 1890 All Other 0 | 1862 All Other 0 | 1890 All Other 0 |

V(D). Planned Program (Activity)**1. Brief description of the Activity**

- IRB Committee
- Instruments development
- Taste testing of samples
- One-on one taste testing
- Data collection
- Development of fact sheets

The purpose of the DC Drinking Water Blind Taste Testing Project was to gather information on consumers' preferences and consumption of drinking water; specifically in relation to the District of Columbia's tap water. Implications of the study allowed the researchers to make recommendations for increased consumption of water by individuals who live and/or work in the District of Columbia. The objectives were: 1. To conduct drinking water Blind Taste Testing to a cross-sectional sample of 100 individuals who live and/or work in the District of Columbia. 2. To determine consumers' preferences for the different types of drinking water: DC tap water, spring water, distilled water, and mineral water. 3. To determine the types of drinking water being consumed by individuals who live and/or work in the District of Columbia. 4. To determine factors related to the selection of drinking water by individuals who live and/or work in the District of Columbia. 5. To develop recommendations for the increased consumption of the District of Columbia tap water.

The Methods and Procedures: 1. Two hundred eighteen (218) individuals who live and/or work in the District of Columbia participated. 2. Participants were obtained at various facilities including faith based organizations, University of the District of Columbia campus activities and during peak gym hours at the Gold's Gym workout chain. Facilities included: The Center for Nutrition, Diet and Health located in Building 52, B04 of the University of the District of Columbia; New Commandment Baptist Church, Miles Memorial CME Church, Greater Mount Calvary Holy Church, Shiloh Baptist Church, Coalition for the Homeless, Gold's Gym, and UDC Fire Bird Inn. 3. Participants tasted the four samples of water and completed all documents needed by the project. 4. Ranked each sample based upon preference order with 1 being the most favorable and 4 being the least favorable. 5. A double blind number identified each sample of water the participant tasted. 6. Educational materials were provided to the participant. After participants completed the taste test of four different types of water, they completed a survey which involved ranking each cup of water in order of preference. However, each participant was unaware of what type of water they were choosing. The most preferred water was spring water and the least preferred was mineral water. It is interesting to note that tap water was the second most preferred type of water.

Results of the survey demonstrate that the type of water most often consumed by the participants was spring water followed by tap water. The influence of the media on drinking tap water in the District of Columbia created an uncontrollable variable and thus, a limitation to the study. In conclusion, participants have demonstrated that the preferred source of drinking water is spring water. However, tap water is often consumed and was preferred almost as much as the spring water in the blind taste testing portion of the study. The findings of this study also indicate that at least half of the participants meet the dietary recommendations for water consumption. Factors related to the selection of drinking water may include the influence of the media and the participant's perception of the quality and safety of the water they will consume. Although a majority of the participants consume the minimum amount of water, more recommendations and resources can be created to motivate others to do the same. Limitations to the study include the time of year participants are filling out the survey (there is typically more consumption of water during the summer months) and the reliability of the participants responses.

2. Brief description of the target audience

- Individuals who live and work in DC
- Community based organizations and agencies

V(E). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons (contacts) reached through direct and indirect contact methods

| | Direct Contacts Adults | Indirect Contacts Adults | Direct Contacts Youth | Indirect Contacts Youth |
|------|---------------------------|-----------------------------|--------------------------|----------------------------|
| Year | Target | Target | Target | Target |
| Plan | 500 | 0 | 0 | 0 |
| 2007 | 350 | 0 | 0 | 0 |

2. Number of Patent Applications Submitted (Standard Research Output)

Patent Applications Submitted

Year Target

Plan: 0

2007 : 0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

| | Extension | Research | Total |
|-------------|-----------|----------|-------|
| Plan | | | |
| 2007 | 0 | 0 | 0 |

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

| | | | |
|---------------|---------------|---------------|--|
| • · | IRB Committee | | |
| Year | Target | Actual | |
| 2007 | 400 | 350 | |

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

| O No. | Outcome Name |
|-------|--|
| 1 | Participants who have an increased knowledge on DC tap water. |
| 2 | Number of participants changing their attitudes/belief about DC tap water. |
| 3 | Number of participants who drink DC tap water. |

Outcome #1**1. Outcome Measures**

Participants who have an increased knowledge on DC tap water.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 500 | 350 |

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

Jobson and Associates of the U.S. Environmental Protection Agency (2002) reported that one in eight Americans are exposed to potentially harmful microbes, lead, pesticides, or radioactive radon whenever they drink tap water or take a shower. According to DC Commission of Public Health and the Centers for Disease Control (MMWR, 1993) the risk of waterborne infectious diseases increases when filtration and other standard water treatment measures fail. Consumers use many different filtering processes to affect water taste and make the water safe for use. However, taste is most often used as a determinant of drinking water preference, where DC tap water is assumed to be the least favorable.

What has been done

Educational materials were developed to better educate the community on the importance of drinking water, DC Tap water, and the costs of bottle water.

Results**4. Associated Knowledge Areas**

| KA Code | Knowledge Area |
|---------|---|
| 111 | Conservation and Efficient Use of Water |

Outcome #2**1. Outcome Measures**

Number of participants changing their attitudes/belief about DC tap water.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 400 | 0 |

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

What has been done

Results

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|---------|---|
| 111 | Conservation and Efficient Use of Water |

Outcome #3

1. Outcome Measures

Number of participants who drink DC tap water.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Condition Outcome Measure

3b. Quantitative Outcome

| Year | Quantitative Target | Actual |
|------|---------------------|--------|
| 2007 | 250 | 0 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|---------|---|
| 111 | Conservation and Efficient Use of Water |

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Appropriations changes
- Government Regulations

Brief Explanation

V(I). Planned Program (Evaluation Studies and Data Collection)

1. Evaluation Studies Planned

- Before-After (before and after program)
- During (during program)

Evaluation Results

Key Items of Evaluation